



# The Most Intelligent Java IDE

Excel at **enterprise**, **mobile** and **web** development with **Java**, **Scala** and **Groovy**, with all the latest modern technologies and frameworks available out of the box.

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 Version: 14.1.3 Build: 141.1010.3 Released: May 12th, 2015 [System requirements](#) [Installation Instructions](#)

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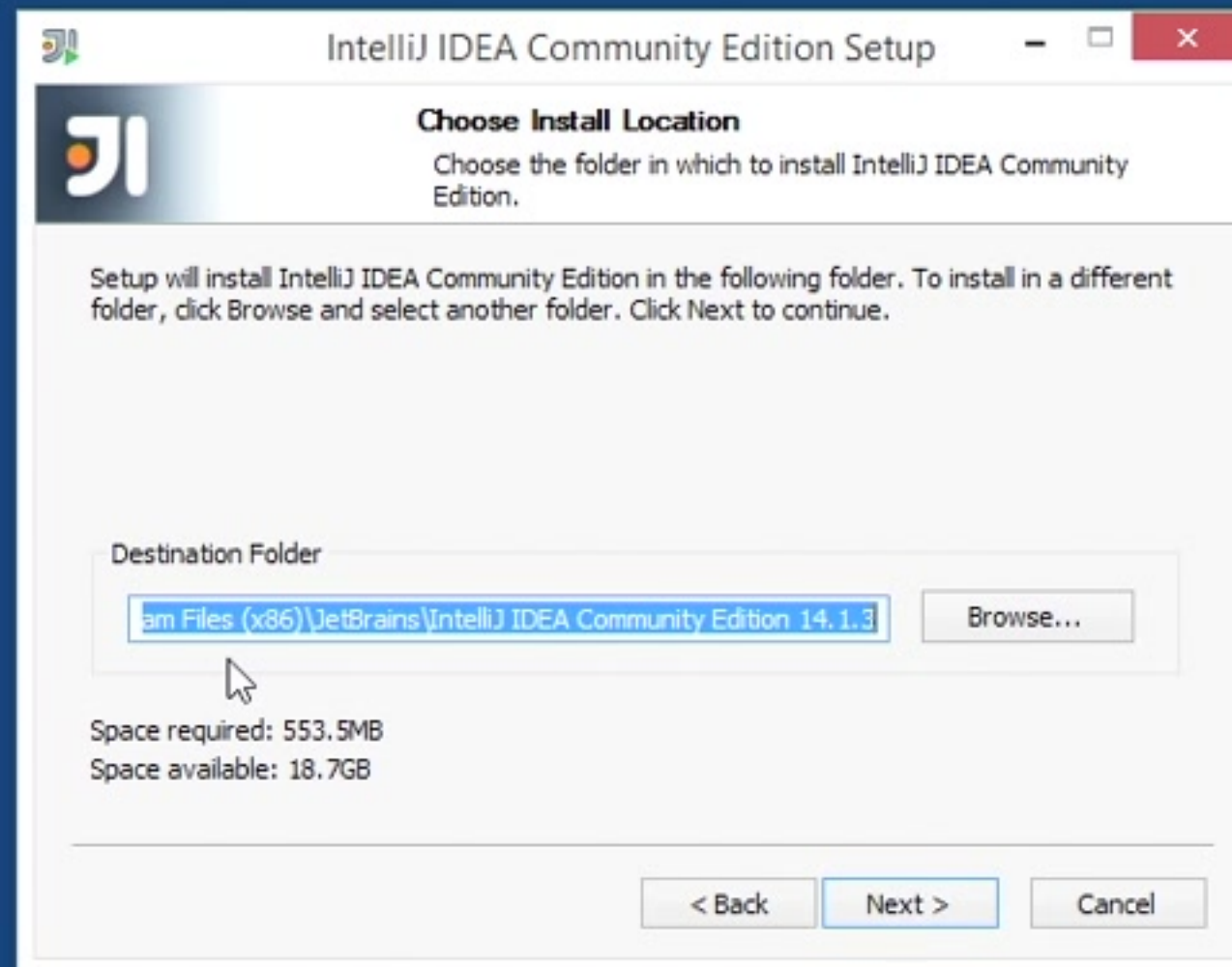
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Exercise Files



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IntelliJ IDEA Community Edition Setup



**Installing**  
Please wait while IntelliJ IDEA Community Edition is being installed.

Extract: runnerw.exe... 100%

Show details

< Back

Next >

Cancel





Recycle Bin



Exercise Files



idealC-14.1.3

Customize IDEA

UI Themes → Default plugins → Featured plugins

Set UI theme

IntelliJ

module > src > HelloWorld

HelloWorld.java x

Project

Structure

```
import javax.swing.*;
import java.awt.*;

public class HelloWorld {
    public HelloWorld() {
        JFrame frame = new JFrame("Hello wor
        JLabel label = new JLabel();
        label.setFont(new Font("Serif", Font
        label.
        frame.
        frame.
        frame.
        frame.
        frame.
        public sta
    }
}
```

Breakpoints

+ - [icon] [icon]

☒ Line Breakpoints

☒ Line 6 in HelloWorld.HelloV

☐ Exception Breakpoints

☐ Any exception

Darcula

module > src > HelloWorld

HelloWorld.java x

Project

Structure

```
import javax.swing.*;
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        label.setFont(new Font("Serif", Font
        label.
        frame.
        frame.
        frame.
        frame.
        frame.
        public sta
    }
}
```

Breakpoints

+ - [icon] [icon]

☒ Line Breakpoints

☒ Line 6 in HelloWorld.HelloV

☐ Exception Breakpoints

☐ Any exception

UI theme can be changed later in Settings | Appearance & Behavior | Appearance

Skip All and Set Defaults

Next: Default plugins





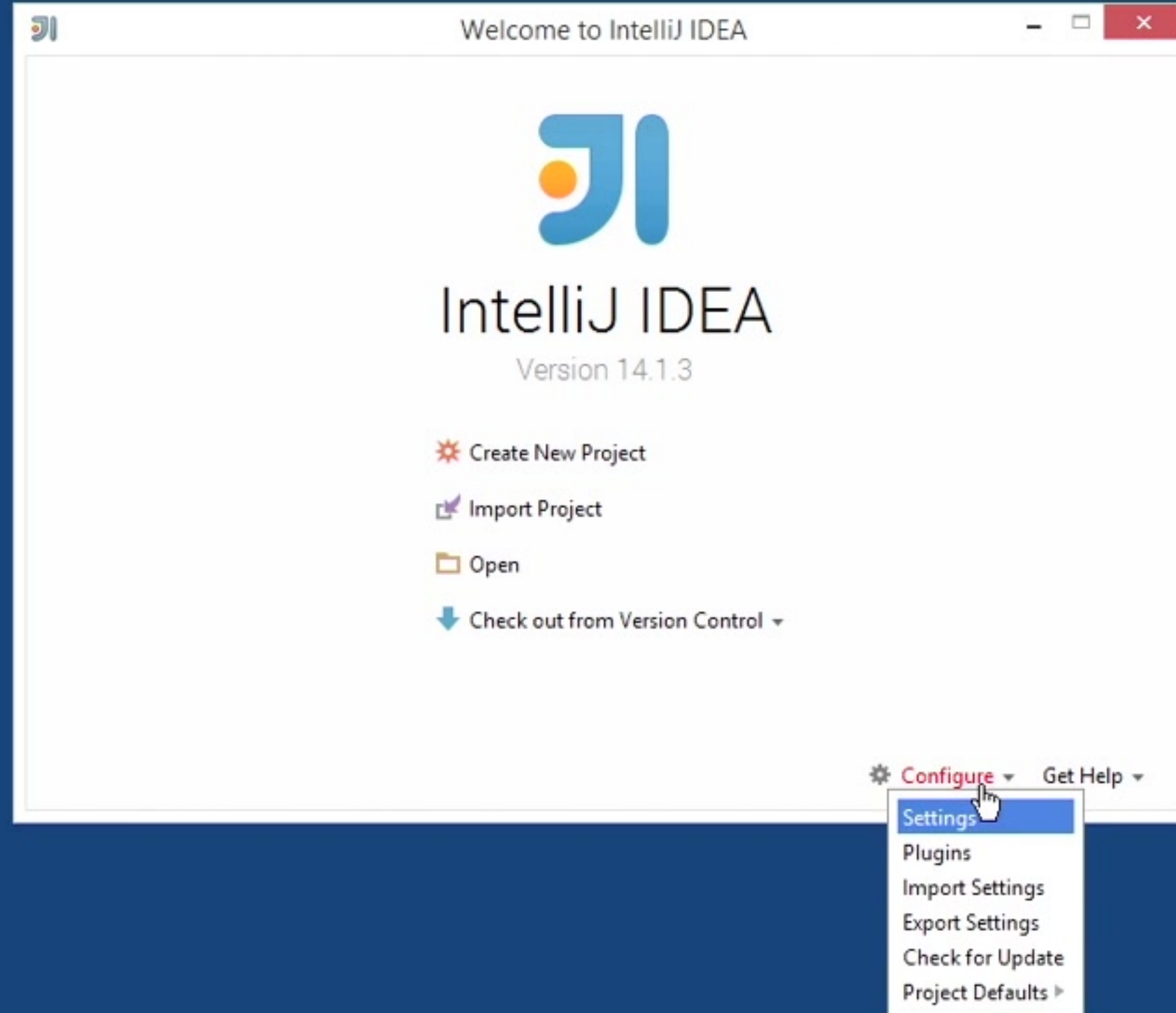
Recycle Bin



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## Project Settings

Libraries

## Platform Settings

## SDKs

Global Libraries

## Problems

Nothing to show



Select Home Directory for JDK



▶  C:\

▶  E:\

Drag and drop a file into the space above to quickly locate it in the tree.

OK

Cancel

Help

[details here](#)

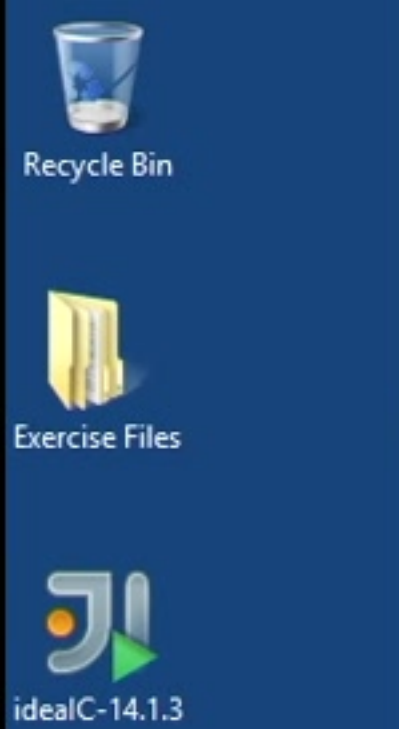
OK

Cancel

Apply

Help





Project Settings

Project

Libraries

Platform Settings

SDKs

Global Libraries

Problems

Nothing to show

Default Project Structure

Select Home Directory for JDK

C:\Program Files\Java\jdk1.8.0\_45

Application Vendor

▶ ATI

▶ ATI Technologies

▶ Boot Camp

▶ Common Files

▶ DIFX

▶ eclipse

▶ IDT

▶ IIS

▶ Intel

▶ Internet Explorer

▼ Java

▶ jdk1.8.0\_45

▶ jre1.8.0\_45

▶ Logitech

▶ Microsoft Analysis Services

▶ Microsoft Identity Extensions

Drag and drop a file into the space above to quickly locate it in the tree.

OK

Cancel

Help

OK

Cancel

Apply

Help

### Default Project Structure

Project Settings

Project

Libraries

Platform Settings

**SDKs**

Global Libraries

Problems

+ -

1.8

Name: 1.8

JDK home path: C:\Program Files\Java\jdk1.8.0\_45

Classpath Sourcepath Annotations Documentation Paths

- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\charsets.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\deploy.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\javaws.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\jce.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\jfr.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\jfxswt.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\jsse.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\management-agent.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\plugin.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\resources.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\rt.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\ext\access-bridge-64.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\ext\cldrdata.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\ext\dnsns.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\ext\jaccess.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\ext\jfxrt.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\ext\localedata.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\ext\nashorn.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\ext\sunec.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\ext\sunjce\_provider.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\ext\sunmscapi.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\ext\sunpkcs11.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\ext\zipfs.jar

OK Cancel Apply Help





Recycle Bin

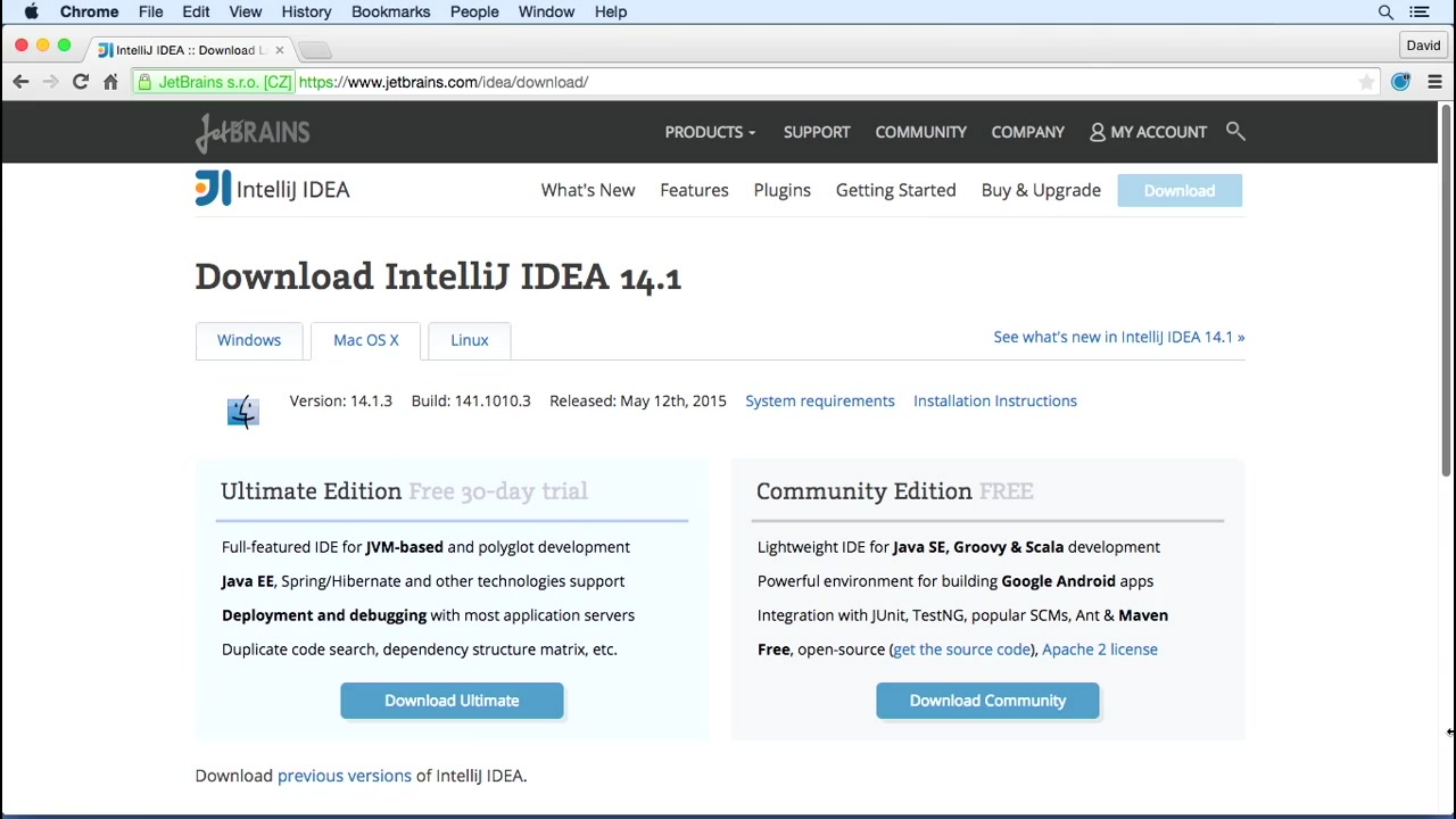


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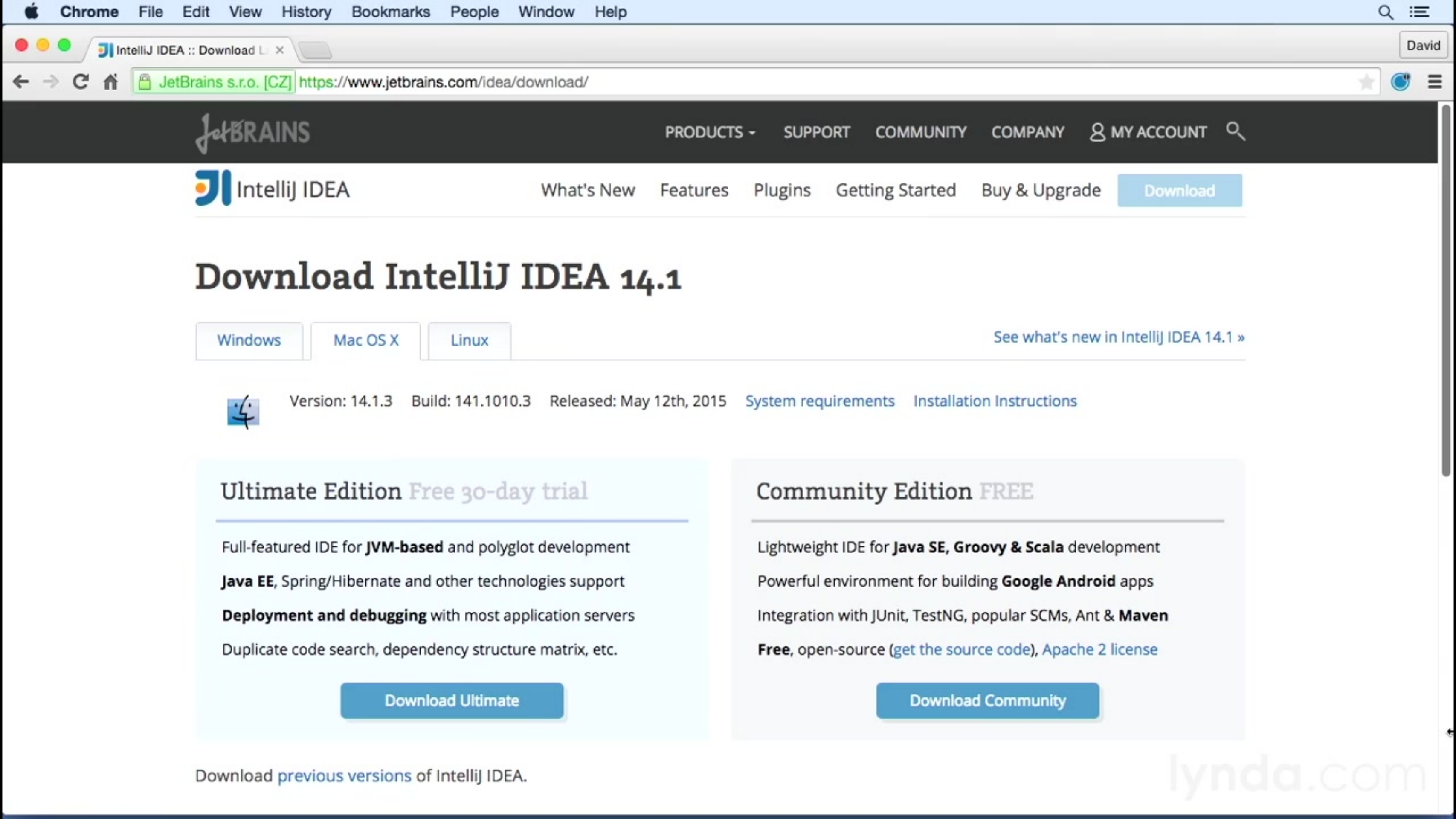
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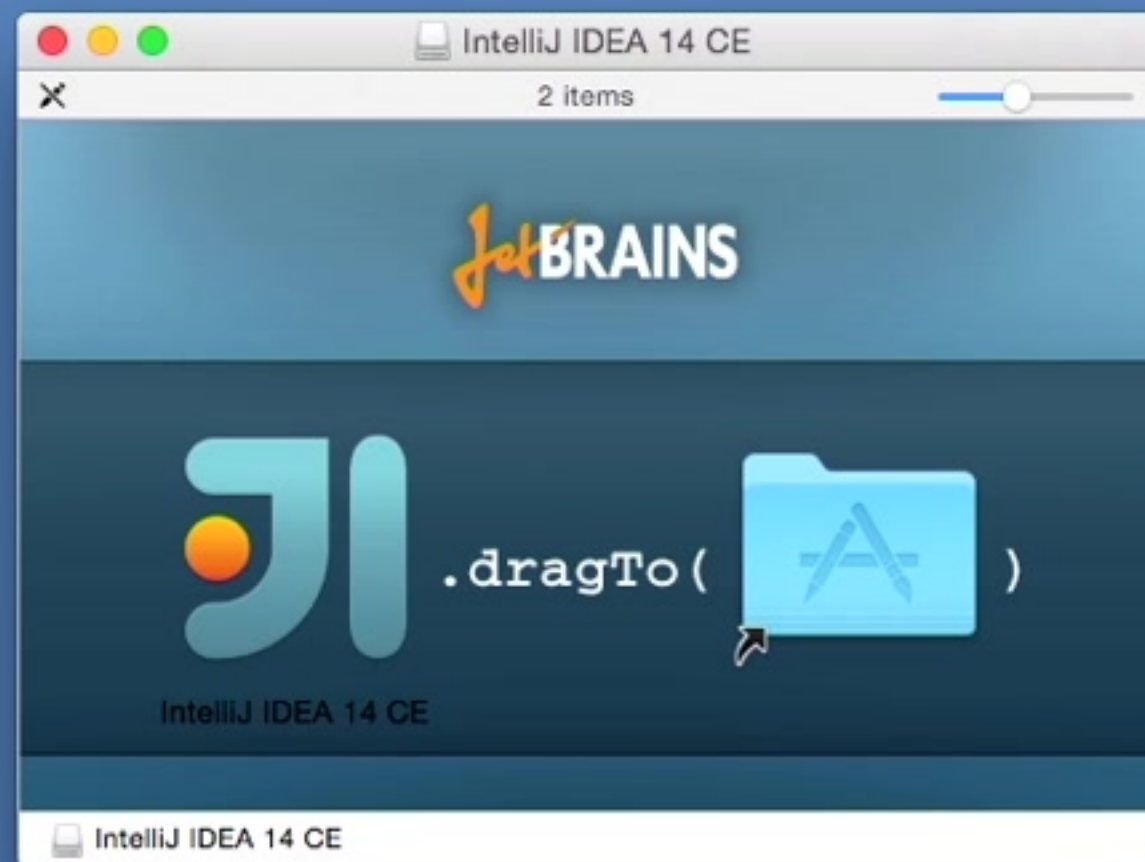
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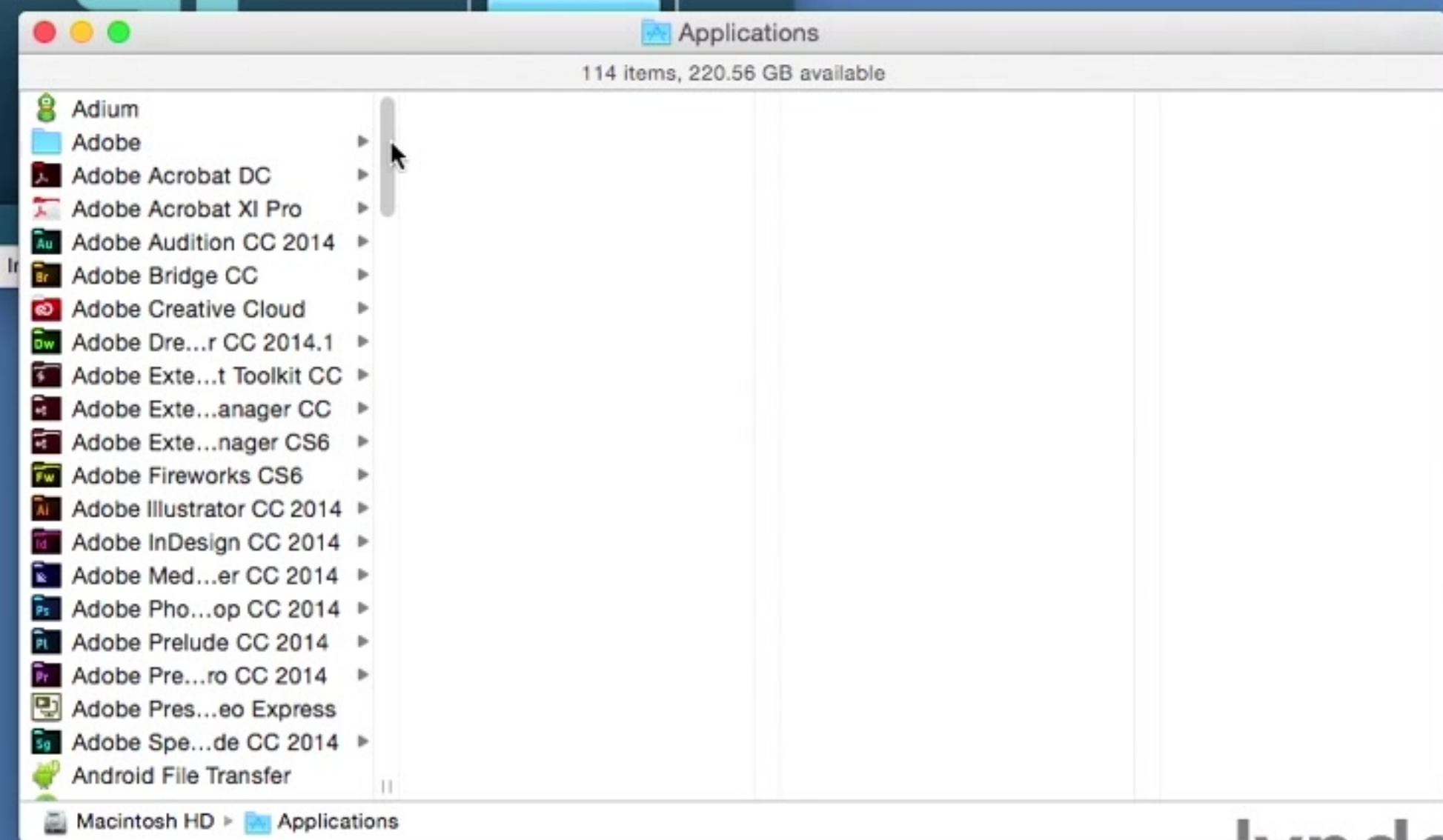
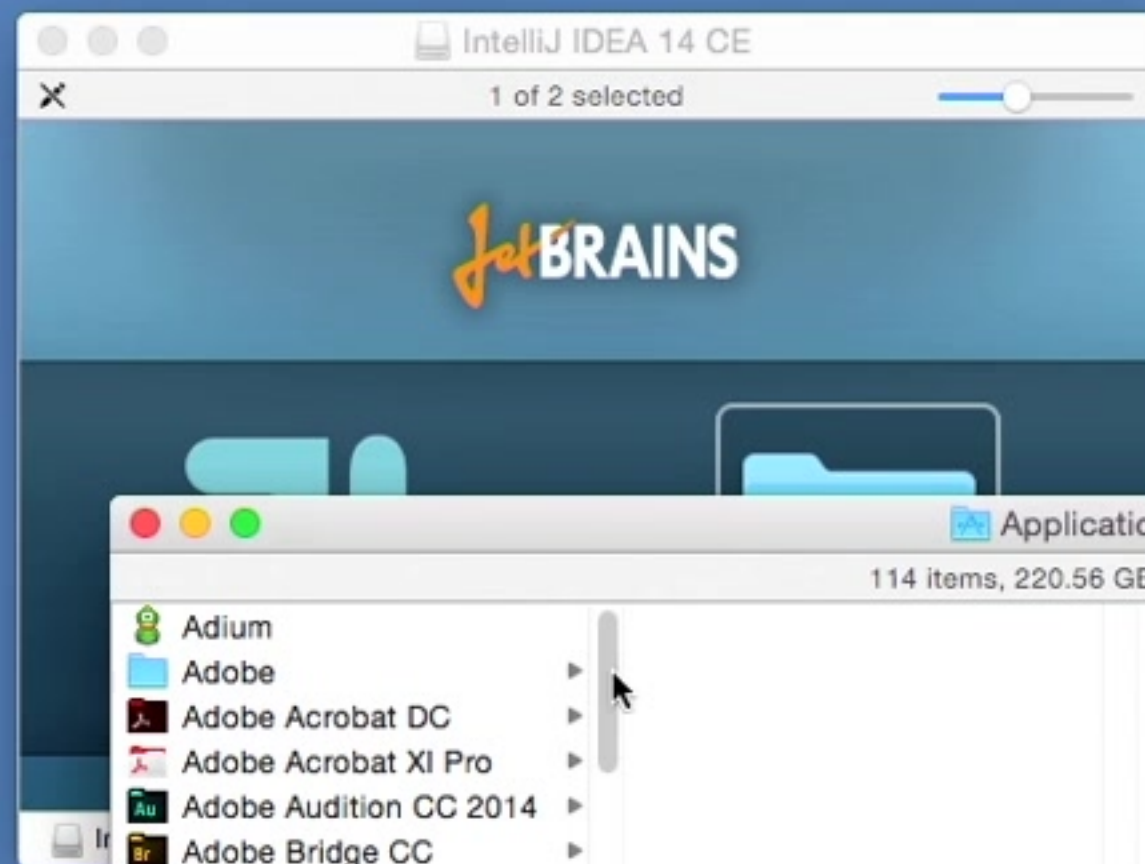




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Complete Installation

You can import your settings from a previous version of IntelliJ IDEA.

☐ I want to import my settings from a custom location

Specify config folder or installation home of the previous version of IntelliJ IDEA:

☒ I do not have a previous version of IntelliJ IDEA or I do not want to import my settings

OK

Applications

iBooks

iDVD

Image Capture

iMovie

iMovie 9.0.9

IntelliJ IDEA 14 CE

iPhoto

iTunes

iWeb

iWork '09

Keynote

IntelliJ IDEA 14 CE

Application - 380 MB

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IntelliJ IDEA 14 CE

1 of 2 selected

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Version 14.1.3

- Create New Project
- Import Project
- Open
- Check out from Version Control ▾

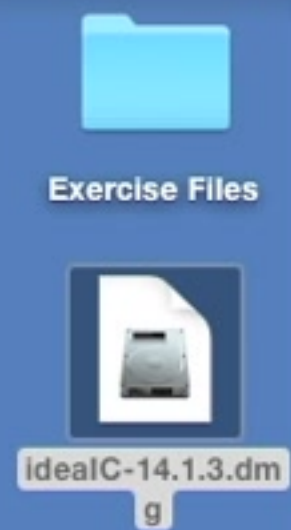
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 Get Help ▾

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Project Settings

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Library

Search

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All My Files

david

Dropbox

Courses

Applications

Desktop

Documents

Downloads

JavaEsst 2015

Devices

BOOTCAMP

IntelliJ IDEA 14 CE

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Library

opt

Software

System

Users

ColorSync

Components

Compositions

Contextual Menu Items

CoreMediaIO

Desktop Pictures

Developer

Dictionaries

DirectoryServices

Documentation

DropboxHelperTools

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Google

Graphics

Image Capture

Input Methods

Internet Plug-Ins

iTunes


Java

New Folder

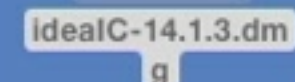
Cancel

Choose

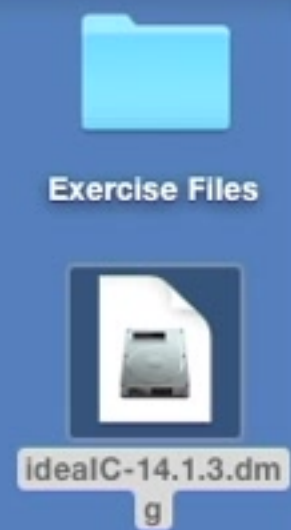
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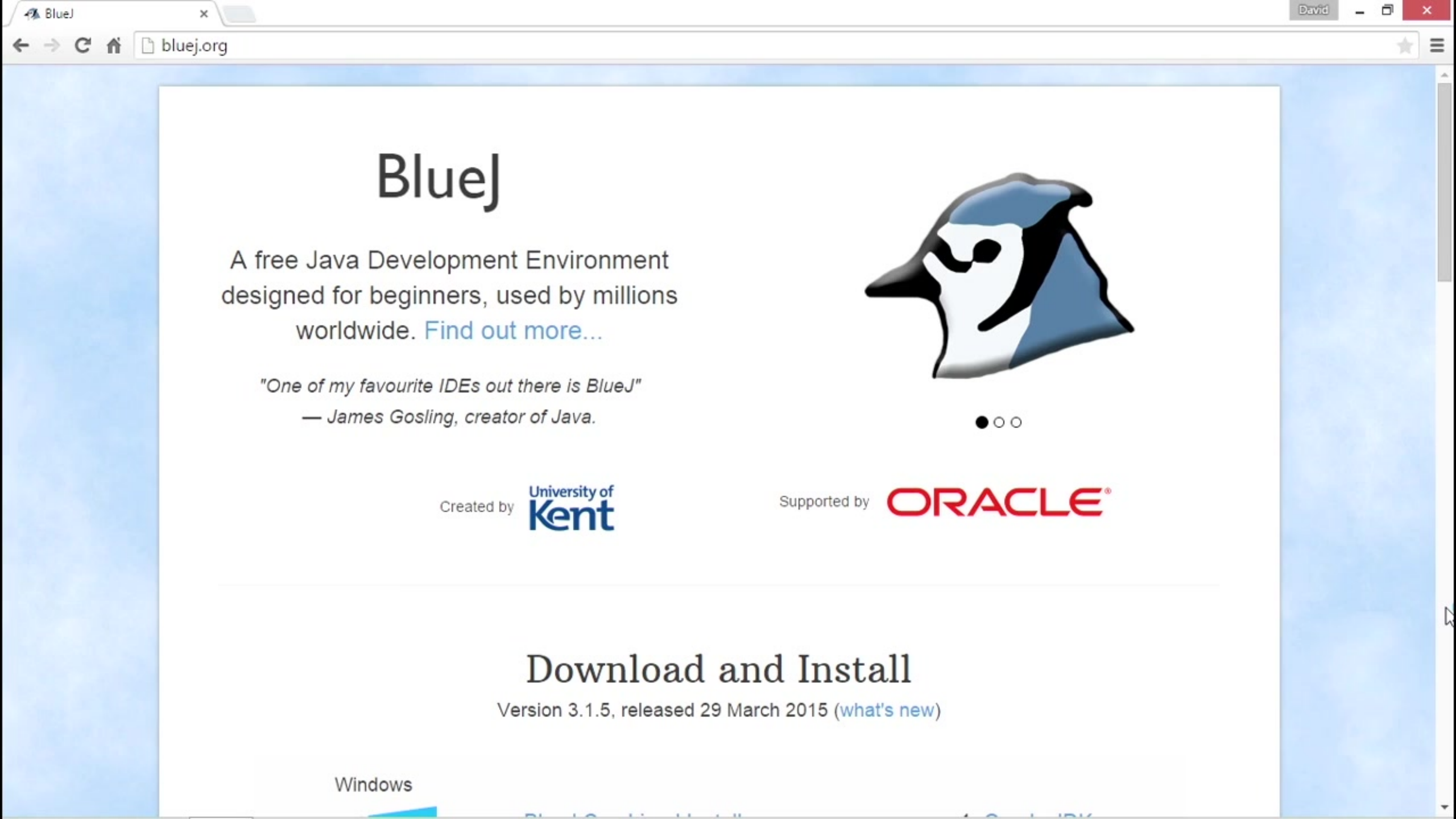


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# BlueJ

A free Java Development Environment designed for beginners, used by millions worldwide. [Find out more...](#)

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— James Gosling, creator of Java.



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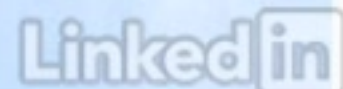
```
/**
 * Add a student to this LabClass.
 */
public void enrollStudent(Student newStudent)
{
    if(students.size() == capacity) {
        System.out.println("The class is full.");
    }
    else {
        students.add(newStudent);
    }
}
```



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Windows





Mac OS X



10.7[Lion].3 and newer:  
[BlueJ Installer](#)  
(includes Oracle JDK)

OR

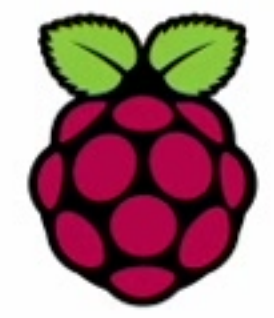
10.7[Lion].2 and older:  
[BlueJ Installer](#)  
(uses Apple JDK)

Ubuntu/Debian Linux



[BlueJ Installer](#)

Raspbian Linux



[BlueJ Installer](#)

See [this page](#) for information about using BlueJ on the Raspberry Pi.




BlueJ

x

bluej.org

David

Windows




BlueJ Combined Installer  
(includes JDK)

OR

1. Oracle JDK

2. BlueJ Installer

Mac OS X




10.7[Lion].3 and newer:  
BlueJ Installer  
(includes Oracle JDK)

OR


10.7[Lion].2 and older:  
BlueJ Installer  
(uses Apple JDK)

Ubuntu/Debian Linux

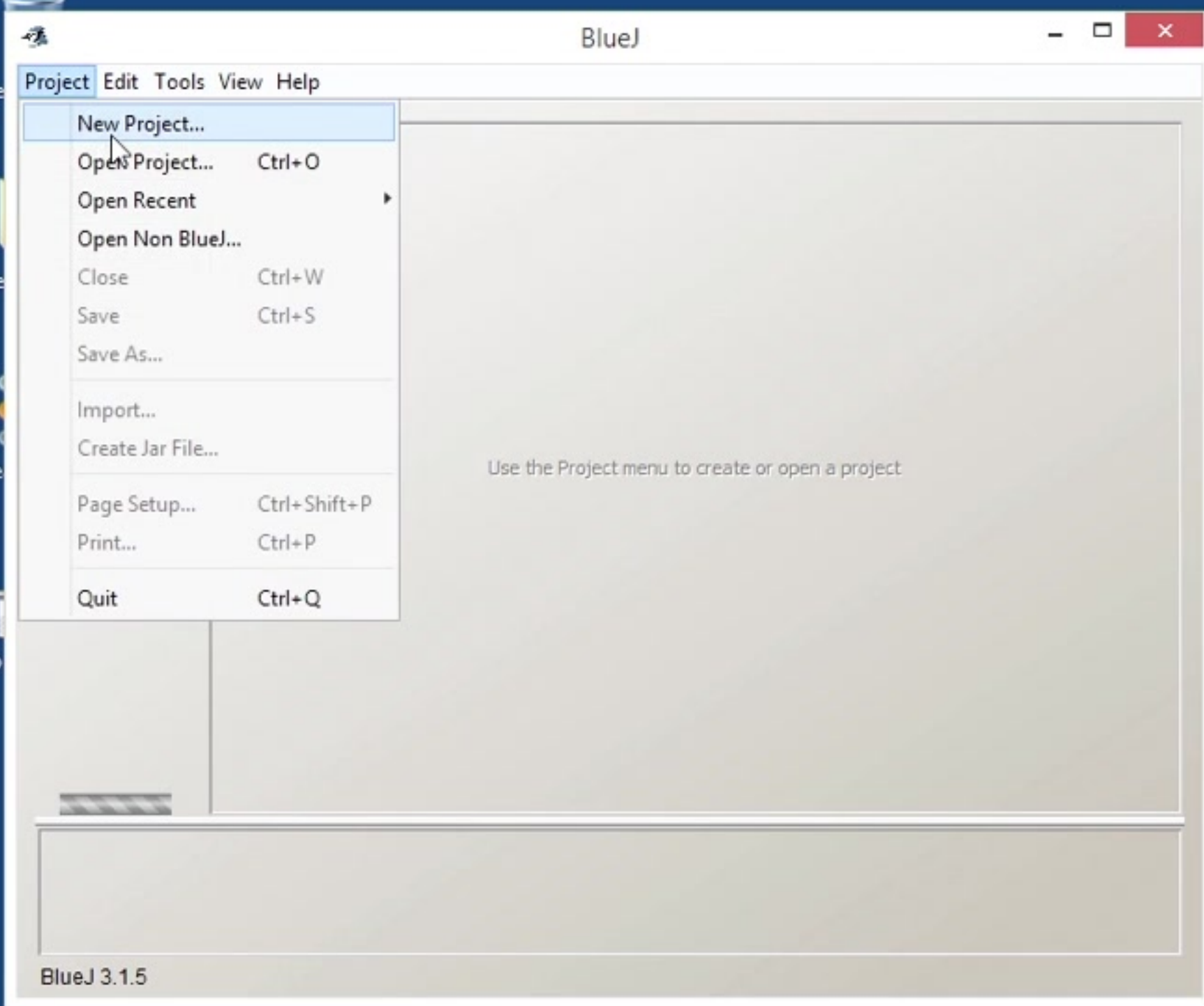


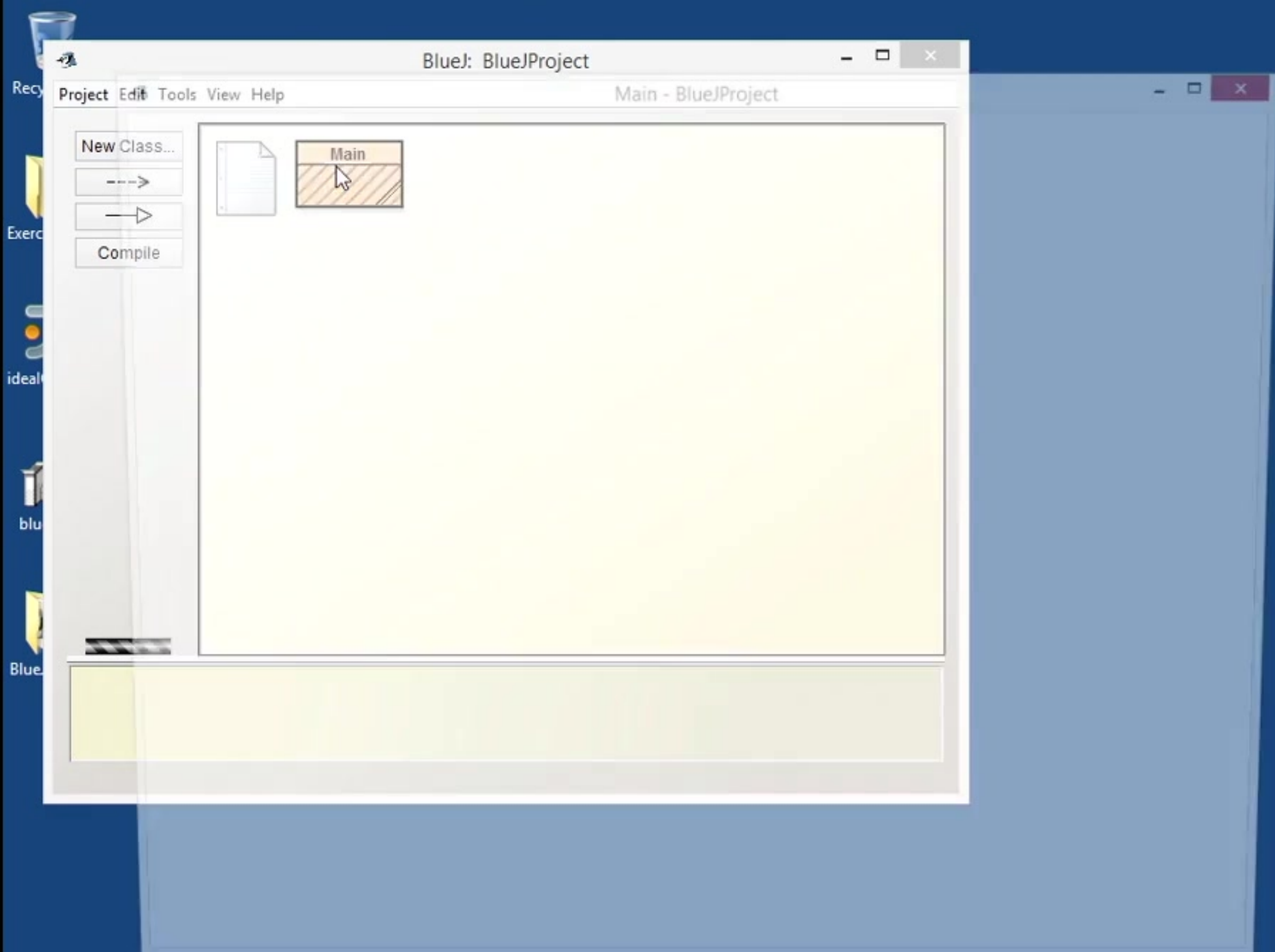
BlueJ Installer

Raspbian Linux

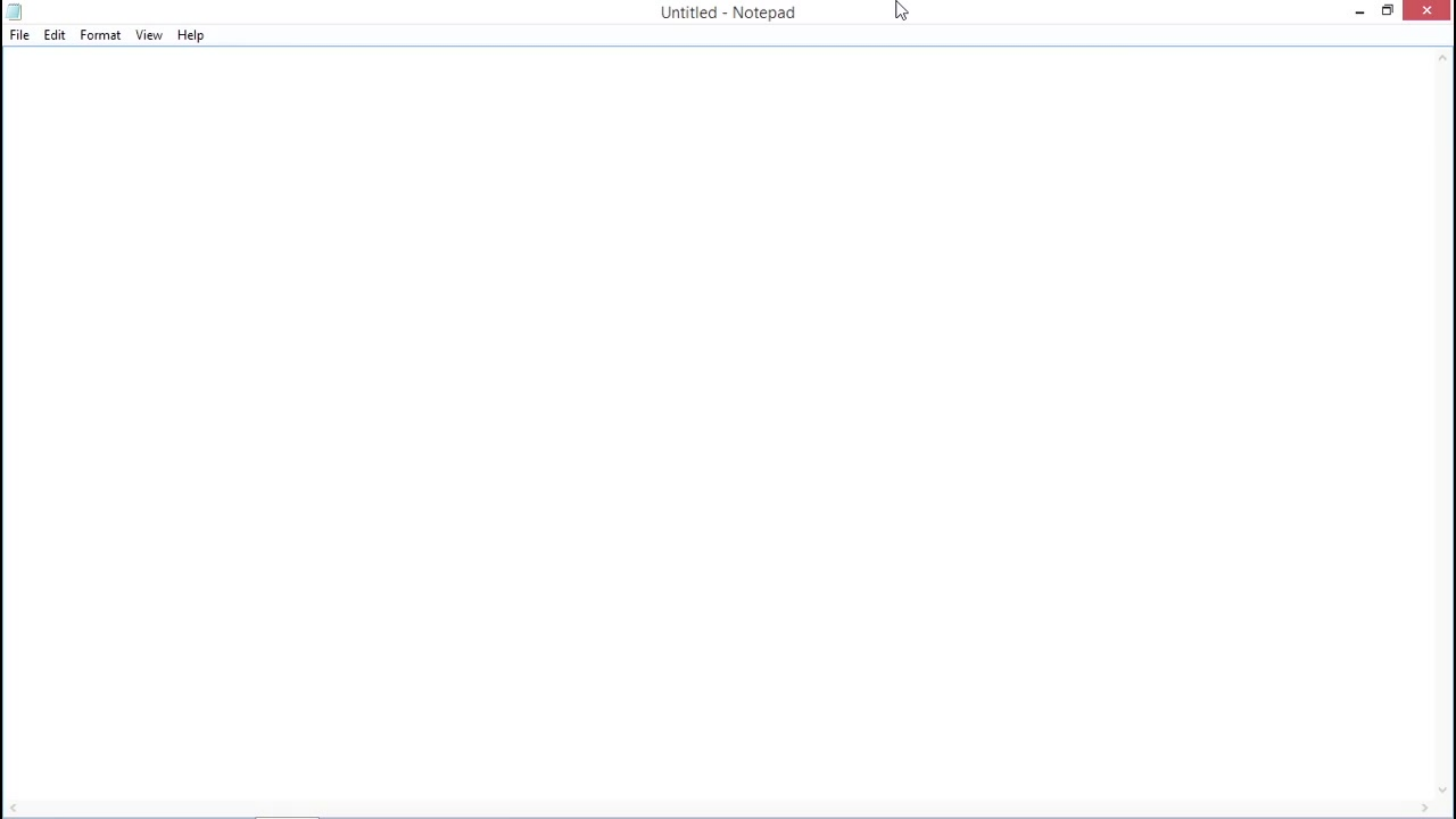


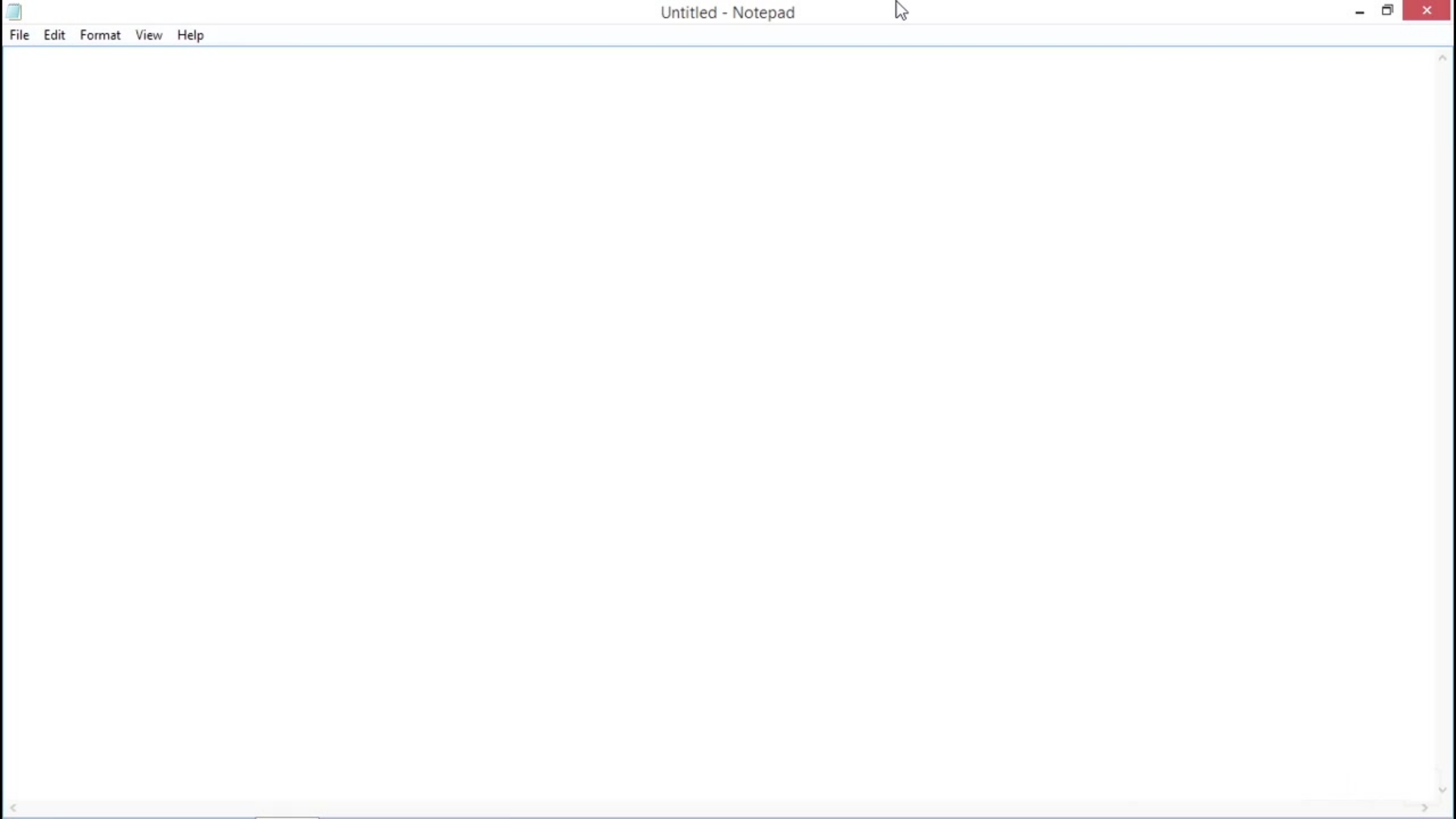
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public |



```
public class Main
```



```
public class Main {
```

```
}
```





```
public class Main {  
  
    public  
  
}
```



```
public class Main {  
  
    public static  
  
}
```



```
public class Main {
```

```
    public static void main|
```

```
}
```





```
public class Main {  
  
    public static void main(  
  
}
```



```
public class Main {  
  
    public static void main(String|  
  
}
```

```
public class Main {
```

```
    public static void main(String[] args)
```

```
}
```

```
public class Main {
```

```
    public static void main(String[] args) {
```

```
    }
```

```
}
```





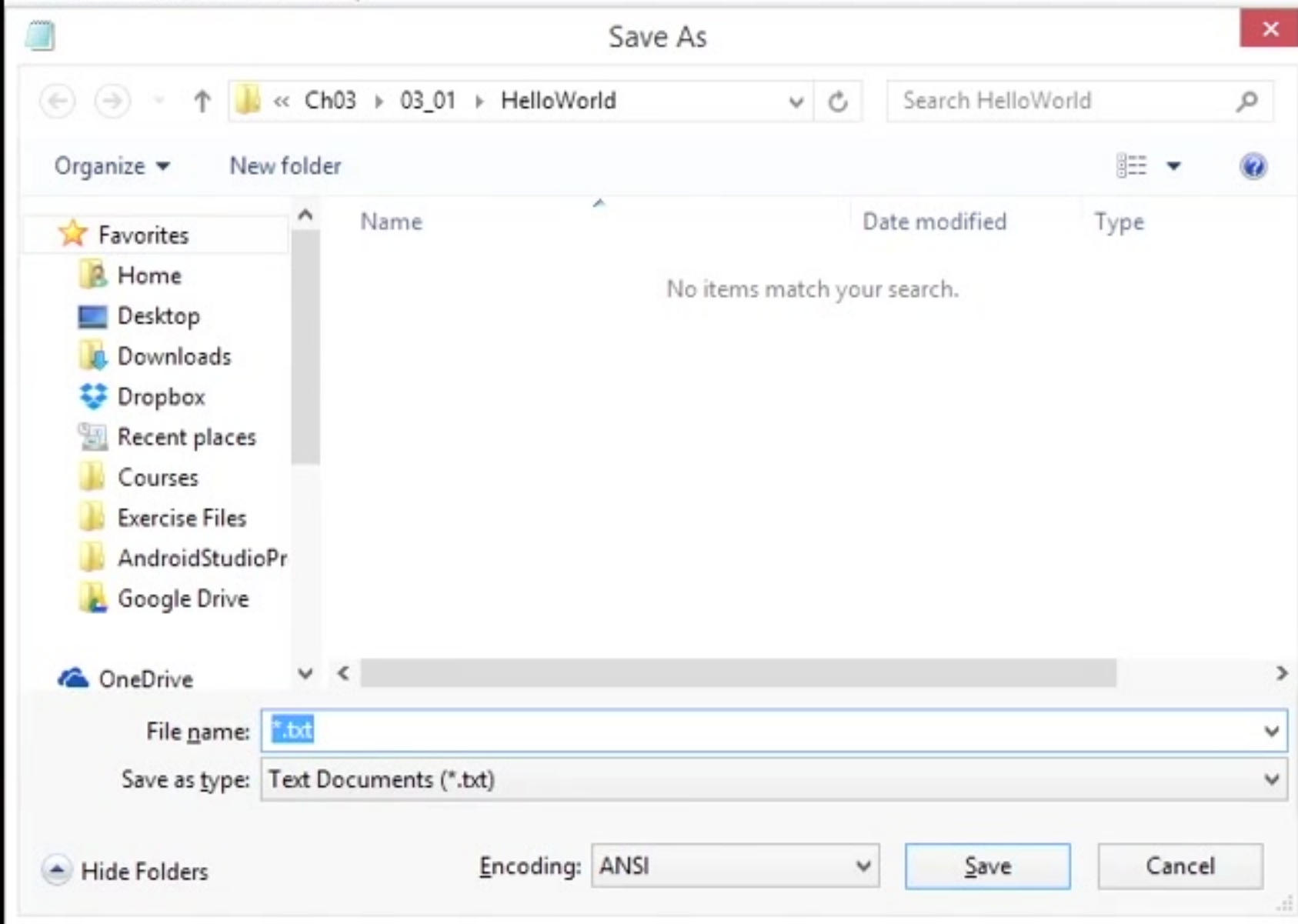
```
public class Main {
```

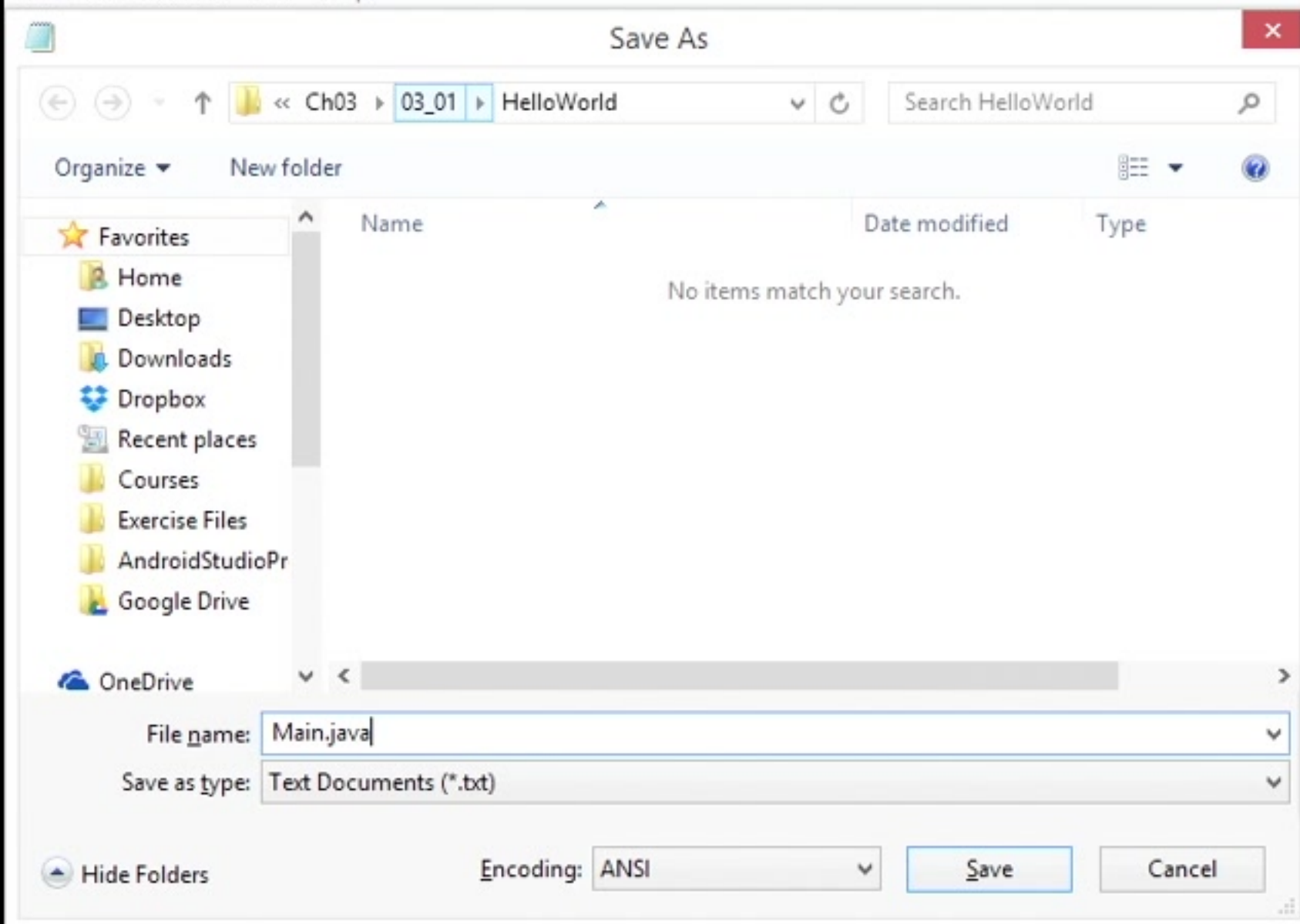
```
    public static void main(String[] args) {
```

```
        System.out.println("
```

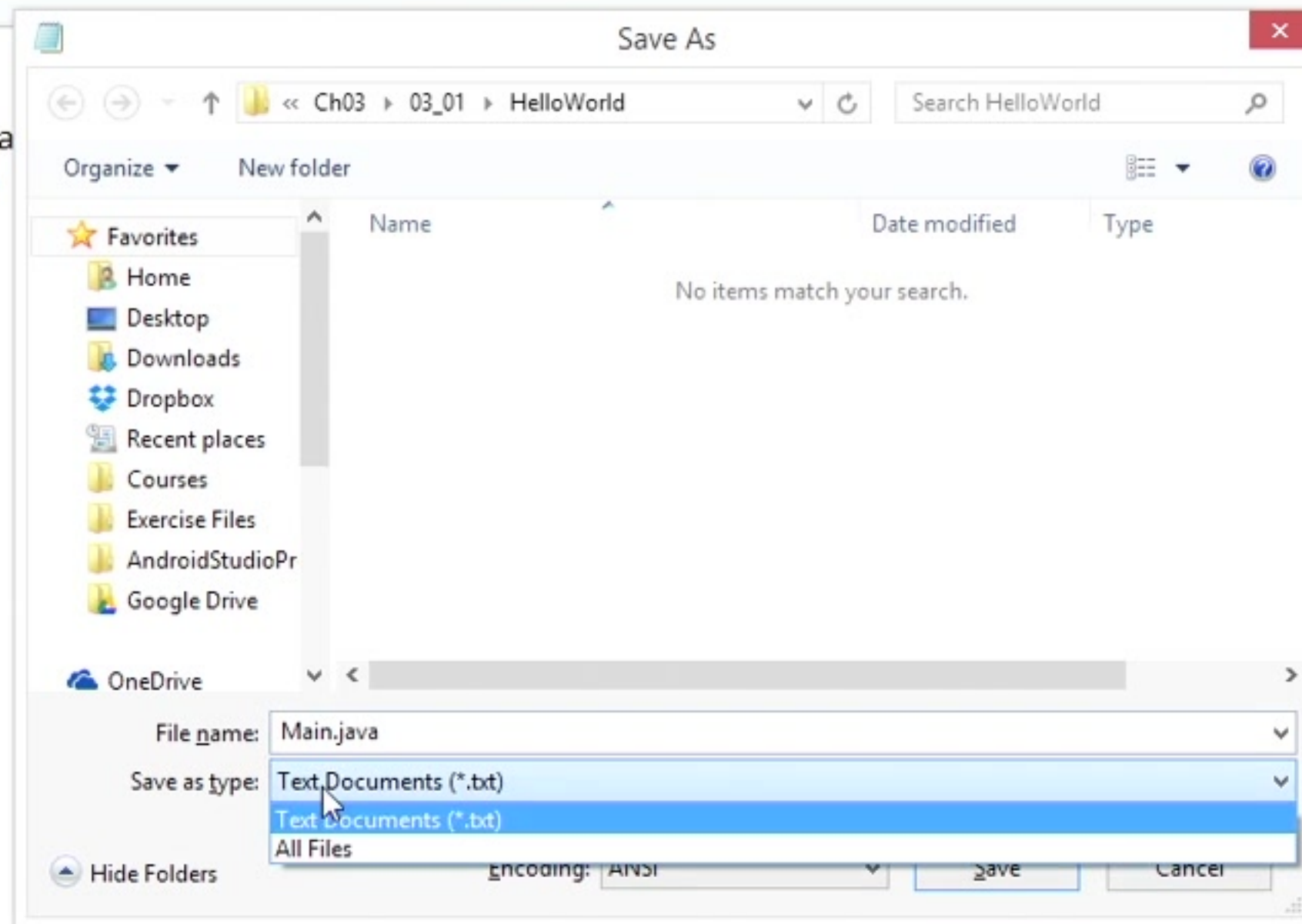
```
    }
```

```
}
```





}





## Command Prompt

Microsoft Windows [Version 6.3.9600]  
(c) 2013 Microsoft Corporation. All rights reserved.

C:\Users\David>cd \_

I

## Command Prompt

Microsoft Windows [Version 6.3.9600]  
(c) 2013 Microsoft Corporation. All rights reserved.  
C:\Users\David>cd "Desktop\Exercise Files\Ch03\03\_01\HelloWorld" \_

I

## Command Prompt

```
Microsoft Windows [Version 6.3.9600]
(c) 2013 Microsoft Corporation. All rights reserved.

C:\Users\David>cd "Desktop\Exercise Files\Ch03\03_01\HelloWorld"

C:\Users\David\Desktop\Exercise Files\Ch03\03_01\HelloWorld>dir
Volume in drive C is BOOTCAMP
Volume Serial Number is E017-4F3E

Directory of C:\Users\David\Desktop\Exercise Files\Ch03\03_01\HelloWorld

06/02/2015  02:37 PM    <DIR>          .
06/02/2015  02:37 PM    <DIR>          ..
06/02/2015  02:37 PM                117 Main.java
               1 File(s)                117 bytes
               2 Dir(s)  19,333,337,088 bytes free

C:\Users\David\Desktop\Exercise Files\Ch03\03_01\HelloWorld>javac
```

## Command Prompt

Directory of C:\Users\David\Desktop\Exercise Files\Ch03\03\_01\HelloWorld

```
06/02/2015  02:37 PM    <DIR>      .
06/02/2015  02:37 PM    <DIR>      ..
06/02/2015  02:37 PM                117 Main.java
               1 File(s)                117 bytes
               2 Dir(s)  19,333,337,088 bytes free
```

C:\Users\David\Desktop\Exercise Files\Ch03\03\_01\HelloWorld>javac Main.java

C:\Users\David\Desktop\Exercise Files\Ch03\03\_01\HelloWorld>dir

Volume in drive C is BOOTCAMP  
Volume Serial Number is E017-4F3E

Directory of C:\Users\David\Desktop\Exercise Files\Ch03\03\_01\HelloWorld

```
06/02/2015  02:39 PM    <DIR>      .
06/02/2015  02:39 PM    <DIR>      ..
06/02/2015  02:39 PM                418 Main.class
06/02/2015  02:37 PM                117 Main.java
               2 File(s)                 535 bytes
               2 Dir(s)  19,326,963,712 bytes free
```

C:\Users\David\Desktop\Exercise Files\Ch03\03\_01\HelloWorld>



## Command Prompt

Directory of C:\Users\David\Desktop\Exercise Files\Ch03\03\_01\HelloWorld

```
06/02/2015  02:37 PM    <DIR>      .
06/02/2015  02:37 PM    <DIR>      ..
06/02/2015  02:37 PM                117 Main.java
                1 File(s)            117 bytes
                2 Dir(s)  19,333,337,088 bytes free
```

C:\Users\David\Desktop\Exercise Files\Ch03\03\_01\HelloWorld>javac Main.java

C:\Users\David\Desktop\Exercise Files\Ch03\03\_01\HelloWorld>dir

Volume in drive C is BOOTCAMP  
Volume Serial Number is E017-4F3E

Directory of C:\Users\David\Desktop\Exercise Files\Ch03\03\_01\HelloWorld

```
06/02/2015  02:39 PM    <DIR>      .
06/02/2015  02:39 PM    <DIR>      ..
06/02/2015  02:39 PM                418 Main.class
06/02/2015  02:37 PM                117 Main.java
                2 File(s)             535 bytes
                2 Dir(s)  19,326,963,712 bytes free
```

C:\Users\David\Desktop\Exercise Files\Ch03\03\_01\HelloWorld>java Main

I



Recycle Bin



Exercise Files

Arguments

File Home Share View

Exercise Files > Ch03 > 03\_02 > Arguments

Search Arguments

Name	Date modified	Type	Size
Main	6/2/2015 2:37 PM	JAVA File	1 KB

1 item



Recycle Bin



Exercise Files

Arguments

File Home Share View

Exercise Files > Ch03 > 03\_02 > Arguments

Search Arguments

Name	Date modified	Type	Size
Main	6/2/2015 2:37 PM	JAVA File	1 KB

1 item



Recycle Bin



Exercise Files

Arguments

File Home Share View

Exercise Files > Ch03 > 03\_02 > Arguments

Search Arguments

Name	Date modified	Type	Size
Main	6/2/2015 2:37 PM	JAVA File	1 KB

Type: JAVA File  
Size: 117 bytes  
Date modified: 6/2/2015 2:37 PM

1 item 1 item selected 117 bytes



```
public class Main {  
  
    public static void main(String[] args) {  
        System.out.println("Hello from Java!");  
    }  
}
```

```
public class Main {  
  
    public static void main(String[] args) {  
        System.out.println("Hello from Java!");  
    }  
}
```

```
public class Main {  
  
    public static void main(String[] args) {  
        System.out.println("Hello from Java!");  
        System.out.println(args[0]);  
    }  
}
```

```
public class Main {
```

```
    public static void main(String[] args) {  
        System.out.println("Hello, World!");  
        System.out.println("Main method");  
    }  
}
```

The screenshot shows a Windows desktop with three overlapping windows. The background window is a Notepad application titled 'Main - Notepad' containing a Java class named 'Main'. Overlaid on top of the Notepad is a Windows Explorer window titled 'Arguments'. The Explorer window's address bar shows the path 'C:\Users\David\Desktop\Exercise Files\Ch03\03\_02\Arguments'. The main pane of the Explorer window shows a file named 'Main.java' with a size of 149 bytes. Overlaid on top of the Explorer window is a Command Prompt window titled 'C:\Windows\System32\cmd.exe'. The Command Prompt displays the output of the 'dir' command, showing the directory structure and file details for the 'Arguments' folder.

```
C:\Windows\System32\cmd.exe  
Microsoft Windows [Version 6.3.9600]  
(c) 2013 Microsoft Corporation. All rights reserved.  
  
C:\Users\David\Desktop\Exercise Files\Ch03\03_02\Arguments>dir  
Volume in drive C is BOOTCAMP  
Volume Serial Number is E017-4F3E  
  
Directory of C:\Users\David\Desktop\Exercise Files\Ch03\03_02\Arguments  
  
06/02/2015  02:43 PM    <DIR>          .  
06/02/2015  02:43 PM    <DIR>          ..  
06/02/2015  02:59 PM                149 Main.java  
                1 File(s)                149 bytes  
                2 Dir(s)  19,262,611,456 bytes free  
  
C:\Users\David\Desktop\Exercise Files\Ch03\03_02\Arguments>java
```

```
public class Main {
```

```
    public static void main(String[] args) {  
        System.out.println("Hello from Java!");  
        System.out.println(args[0]);  
    }  
}
```

The screenshot shows a Windows desktop with three overlapping windows. The background window is a Notepad application titled 'Main - Notepad' containing a Java class named 'Main'. Overlaid on top of the Notepad is a Windows Explorer window titled 'Arguments', showing the file structure 'Exercise Files > Ch03 > 03\_02 > Arguments'. Overlaid on top of the Explorer is a Command Prompt window titled 'C:\Windows\System32\cmd.exe'. The Command Prompt displays the output of several commands: 'dir' showing the contents of the current directory (including 'Main.java'), 'javac Main.java' showing successful compilation, and 'java Main MyArgument' showing the program's output: 'Hello from Java!' and 'MyArgument'.

```
C:\Windows\System32\cmd.exe  
Microsoft Windows [Version 6.3.9600]  
(c) 2013 Microsoft Corporation. All rights reserved.  
  
C:\Users\David\Desktop\Exercise Files\Ch03\03_02\Arguments>dir  
Volume in drive C is BOOTCAMP  
Volume Serial Number is E017-4F3E  
  
Directory of C:\Users\David\Desktop\Exercise Files\Ch03\03_02\Arguments  
  
06/02/2015  02:43 PM    <DIR>          .  
06/02/2015  02:43 PM    <DIR>          ..  
06/02/2015  02:59 PM                149 Main.java  
                1 File(s)                149 bytes  
                2 Dir(s) 19,262,611,456 bytes free  
  
C:\Users\David\Desktop\Exercise Files\Ch03\03_02\Arguments>javac Main.java  
  
C:\Users\David\Desktop\Exercise Files\Ch03\03_02\Arguments>java Main MyArgument  
Hello from Java!  
MyArgument  
  
C:\Users\David\Desktop\Exercise Files\Ch03\03_02\Arguments>
```



```
public class Main {
```

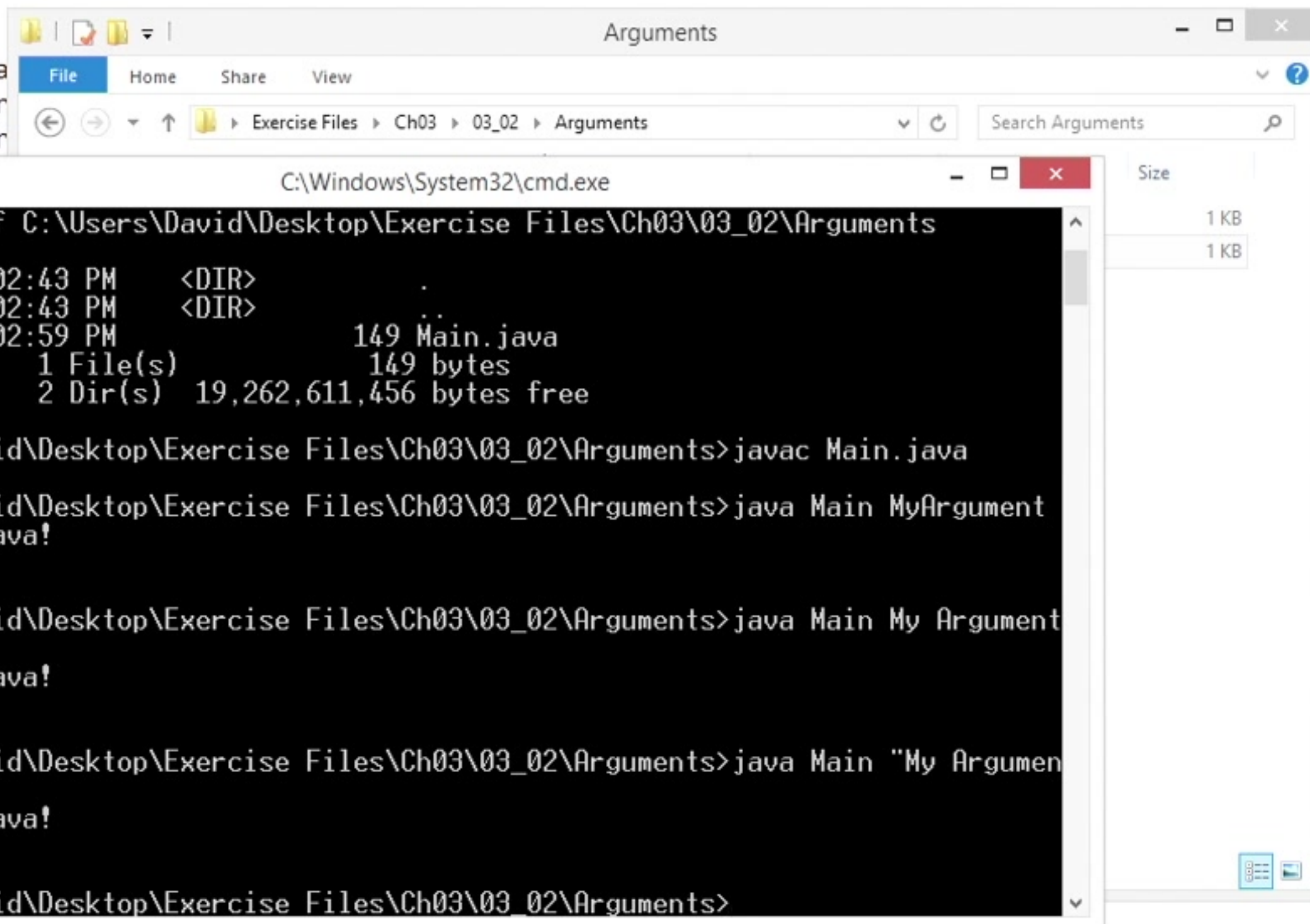
```
    public static void main(String[] args) {  
        System.out.println("Hello from Java!");  
        System.out.println(args[0]);  
    }  
}
```

The screenshot shows a Windows desktop with three windows open. The Notepad window in the background contains a Java class named 'Main' with a 'main' method that prints 'Hello from Java!' and the first command-line argument. The Explorer window, titled 'Arguments', shows the file 'Main.java' (149 bytes) in the directory 'C:\Users\David\Desktop\Exercise Files\Ch03\03\_02\Arguments'. The Command Prompt window, titled 'C:\Windows\System32\cmd.exe', shows the execution of 'dir', 'javac Main.java', and 'java Main MyArgument', resulting in the output 'Hello from Java!' and 'MyArgument'.

```
C:\Windows\System32\cmd.exe  
  
C:\Users\David\Desktop\Exercise Files\Ch03\03_02\Arguments>dir  
Volume in drive C is BOOTCAMP  
Volume Serial Number is E017-4F3E  
  
Directory of C:\Users\David\Desktop\Exercise Files\Ch03\03_02\Arguments  
  
06/02/2015  02:43 PM    <DIR>          .  
06/02/2015  02:43 PM    <DIR>          ..  
06/02/2015  02:59 PM                149 Main.java  
               1 File(s)                149 bytes  
               2 Dir(s)  19,262,611,456 bytes free  
  
C:\Users\David\Desktop\Exercise Files\Ch03\03_02\Arguments>javac Main.java  
  
C:\Users\David\Desktop\Exercise Files\Ch03\03_02\Arguments>java Main MyArgument  
Hello from Java!  
MyArgument  
  
C:\Users\David\Desktop\Exercise Files\Ch03\03_02\Arguments>java Main My Argument  
Hello from Java!  
My  
  
C:\Users\David\Desktop\Exercise Files\Ch03\03_02\Arguments>
```

```
public class Main {
```

```
    public static void main(String[] args) {  
        System.out.println("Hello from Java!");  
        System.out.println(args[0]);  
    }  
}
```



Arguments

File Home Share View

Exercise Files > Ch03 > 03\_02 > Arguments

Search Arguments

C:\Windows\System32\cmd.exe

Directory of C:\Users\David\Desktop\Exercise Files\Ch03\03\_02\Arguments

	Size
06/02/2015 02:43 PM <DIR>	1 KB
06/02/2015 02:43 PM <DIR>	1 KB
06/02/2015 02:59 PM 149 Main.java	
1 File(s) 149 bytes	
2 Dir(s) 19,262,611,456 bytes free	

```
C:\Users\David\Desktop\Exercise Files\Ch03\03_02\Arguments>javac Main.java  
C:\Users\David\Desktop\Exercise Files\Ch03\03_02\Arguments>java Main MyArgument  
Hello from Java!  
MyArgument  
C:\Users\David\Desktop\Exercise Files\Ch03\03_02\Arguments>java Main My Argument  
Hello from Java!  
My  
C:\Users\David\Desktop\Exercise Files\Ch03\03_02\Arguments>java Main "My Argument"  
Hello from Java!  
My Argument  
C:\Users\David\Desktop\Exercise Files\Ch03\03_02\Arguments>
```

```
public class Main {
```

```
    public static void main(String[] args) {  
        System.out.println("Hello from Java!");  
        System.out.println(args[0]);  
    }  
}
```

The screenshot displays a Windows desktop with three overlapping windows:

- Notepad (Main - Notepad):** Contains the source code for a Java class named `Main`. The code defines a `main` method that prints "Hello from Java!" and then prints the first command-line argument (`args[0]`).
- File Explorer (Arguments):** Shows the directory structure `C:\Users\David\Desktop\Exercise Files\Ch03\03_02\Arguments`. It contains a single file named `Main.java` with a size of 149 bytes.
- Command Prompt (C:\Windows\System32\cmd.exe):** Shows the execution of the Java program. The commands and their outputs are:
  - `javac Main.java`: Compiles the source code.
  - `java Main MyArgument`: Runs the program with the argument "MyArgument". Output: "Hello from Java!" followed by "MyArgument".
  - `java Main My Argument`: Runs the program with the argument "My Argument" (space-separated). Output: "Hello from Java!" followed by "My".
  - `java Main "My Argument"`: Runs the program with the argument "My Argument" in quotes. Output: "Hello from Java!" followed by "My Argument".
  - `java Main`: Runs the program with no arguments. Output: "Hello from Java!" followed by an exception: `Exception in thread "main" java.lang.ArrayIndexOutOfBoundsException: 0 at Main.main(Main.java:5)`.

```
public class Main {  
  
    public static void main(String[] args) {  
        System.out.println("Hello from Java!");  
        System.out.println(args[0]);  
    }  
}
```





Recycle Bin



Exercise Files

File

Home

Share

View

Exercise Files > Ch03 > 03\_03 > Packages

Search Packages

	Name	Date modified	Type	Size
★ Favorites				
Home	Main	6/2/2015 2:59 PM	JAVA File	1 KB
Desktop				
Downloads				
Dropbox				
Recent places				
Courses				
Exercise Files				
AndroidStudioProjects				
Google Drive				
OneDrive				
Homegroup				
This PC				
Libraries				
Network				

1 item





Recycle Bin



Exercise Files

File

Home

Share

View

Exercise Files > Ch03 > 03\_03 > Packages

Search Packages

	Name	Date modified	Type	Size
★ Favorites				
Home	Main	6/2/2015 2:59 PM	JAVA File	1 KB
Desktop				
Downloads				
Dropbox				
Recent places				
Courses				
Exercise Files				
AndroidStudioProjects				
Google Drive				
OneDrive				
Homegroup				
This PC				
Libraries				
Network				

1 item



Recycle Bin



Exercise Files

Packages

File Home Share View

Exercise Files > Ch03 > 03\_03 > Packages

Search Packages

	Name	Date modified	Type	Size
★ Favorites				
Home	Main	6/2/2015 2:59 PM	JAVA File	1 KB
Desktop				
Downloads				
Dropbox				
Recent places				
Courses				
Exercise Files				
AndroidStudioProjects				
Google Drive				
OneDrive				
Homegroup				
This PC				
Libraries				
Network				

1 item



Recycle Bin



Exercise Files

File

Home

Share

View

Exercise Files

Ch03

03\_03

Packages

Search Packages

Name	Date modified	Type	Size
Main	6/2/2015 2:59 PM	JAVA File	1 KB

Open

Edit

Move to Dropbox

Open with

Share with

TextPad

Send to

Cut

Copy

Create shortcut

Delete

Rename

Properties

1 item1 item selected149 bytes



Recycle Bin



Exercise Files



Main - Notepad

File Edit Format View Help

package |

public class Main {

```
    public static void main(String[] args) {  
        System.out.println("Hello from Java!");  
        System.out.println(args[0]);  
    }
```

}



Recycle Bin



Exercise Files



Main - Notepad

File Edit Format View Help

```
package com.example.java
```

```
public class Main {
```

```
    public static void main(String[] args) {  
        System.out.println("Hello from Java!");  
        System.out.println(args[0]);  
    }
```

```
}
```





Recycle Bin



Exercise Files

File

Home

Share

View

Exercise Files > Ch03 > 03\_03 > Packages

Search Packages

	Name	Date modified	Type	Size
★ Favorites				
Home	Main	6/2/2015 3:23 PM	JAVA File	1 KB
Desktop				
Downloads				
Dropbox				
Recent places				
Courses				
Exercise Files				
AndroidStudioProjects				
Google Drive				
OneDrive				
Homegroup				
This PC				
Libraries				
Network				

1 item 1 item selected 178 bytes



Recycle Bin



Exercise Files

example

File Home Share View

Exercise Files > Ch03 > 03\_03 > Packages > com > example

Search example

Name	Date modified	Type	Size
This folder is empty.			

AMD Catalyst Control Center

View

Sort by

Group by

Refresh

Customize this folder...

Paste

Paste shortcut

Undo Rename

Ctrl+Z

Move to Dropbox

Share with

New

Properties

Folder

0 items



Recycle Bin



Exercise Files

java

File Home Share View

< > << >> << Ch03 > 03\_03 > Packages > com > example > java

Search java

Name	Date modified	Type	Size
Main	6/2/2015 3:23 PM	JAVA File	1 KB

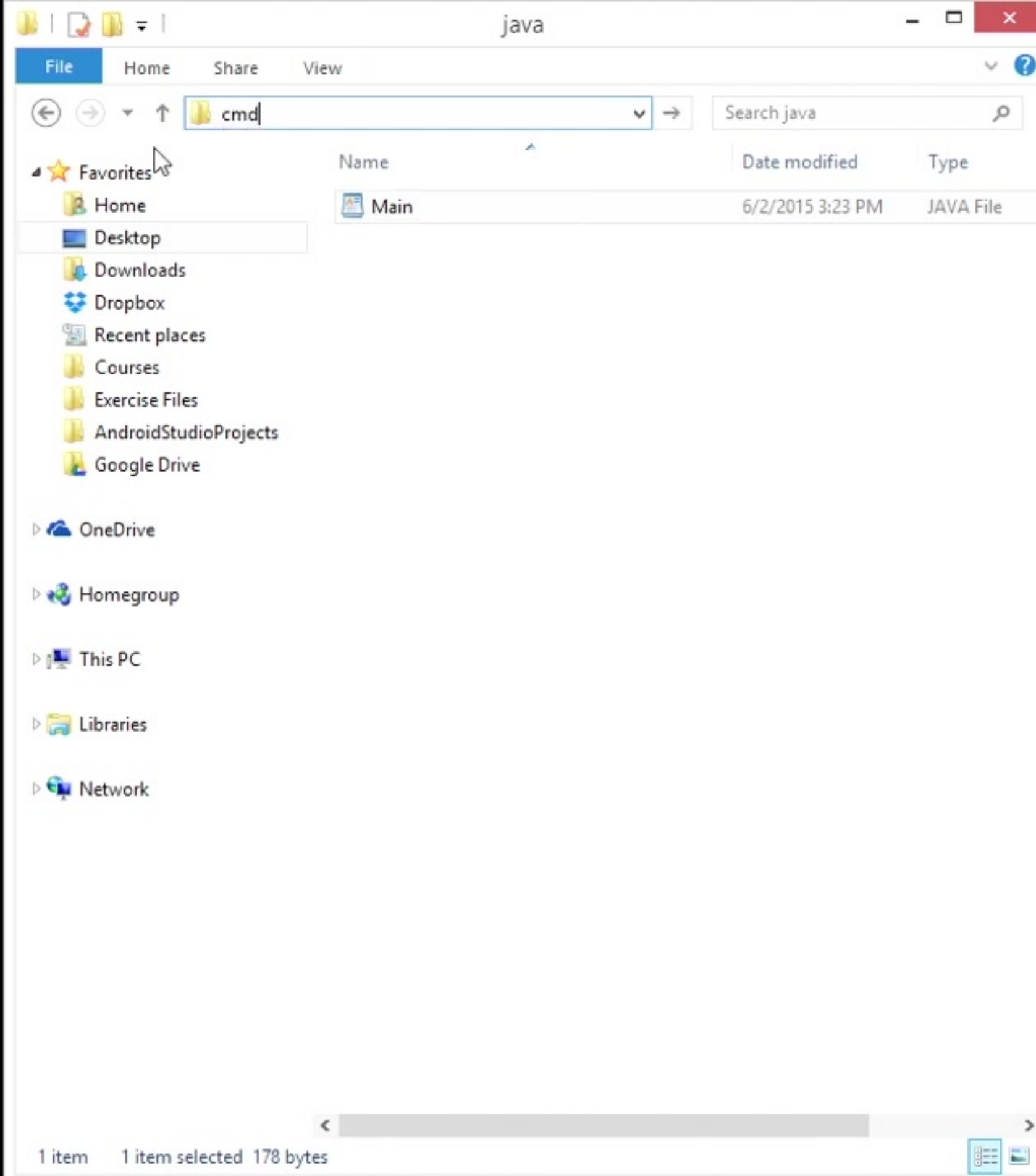
1 item

< > << >> << Packages >>

Search Packages

Date modified	Type	Size
3:23 PM	File folder	

- This PC
- Libraries
- Network

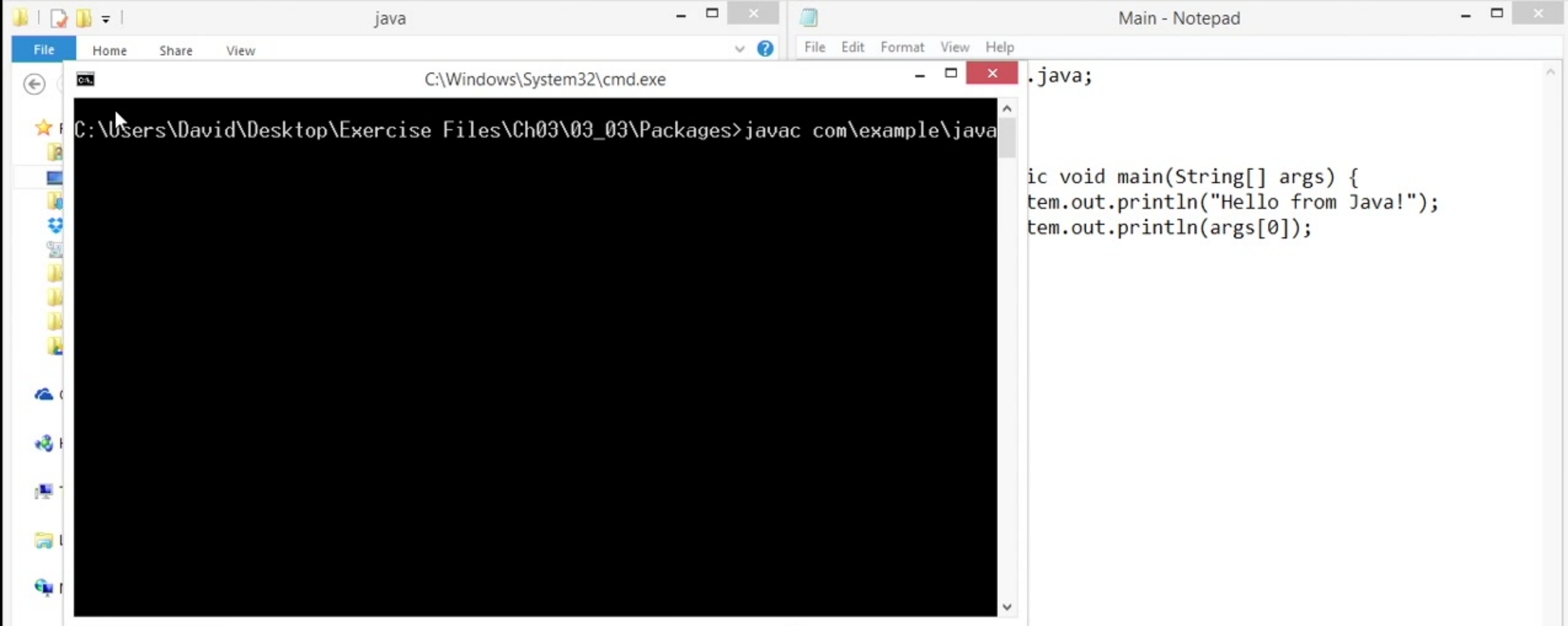


C:\Windows\System32\cmd.exe

Microsoft Windows [Version 6.3.9600]  
(c) 2013 Microsoft Corporation. All rights reserved.  
C:\Users\David\Desktop\Exercise Files\Ch03\03\_03\Packages\com\example\java>cd ..  
C:\Users\David\Desktop\Exercise Files\Ch03\03\_03\Packages\com\example>cd ..  
C:\Users\David\Desktop\Exercise Files\Ch03\03\_03\Packages\com>cd..  
C:\Users\David\Desktop\Exercise Files\Ch03\03\_03\Packages>\_

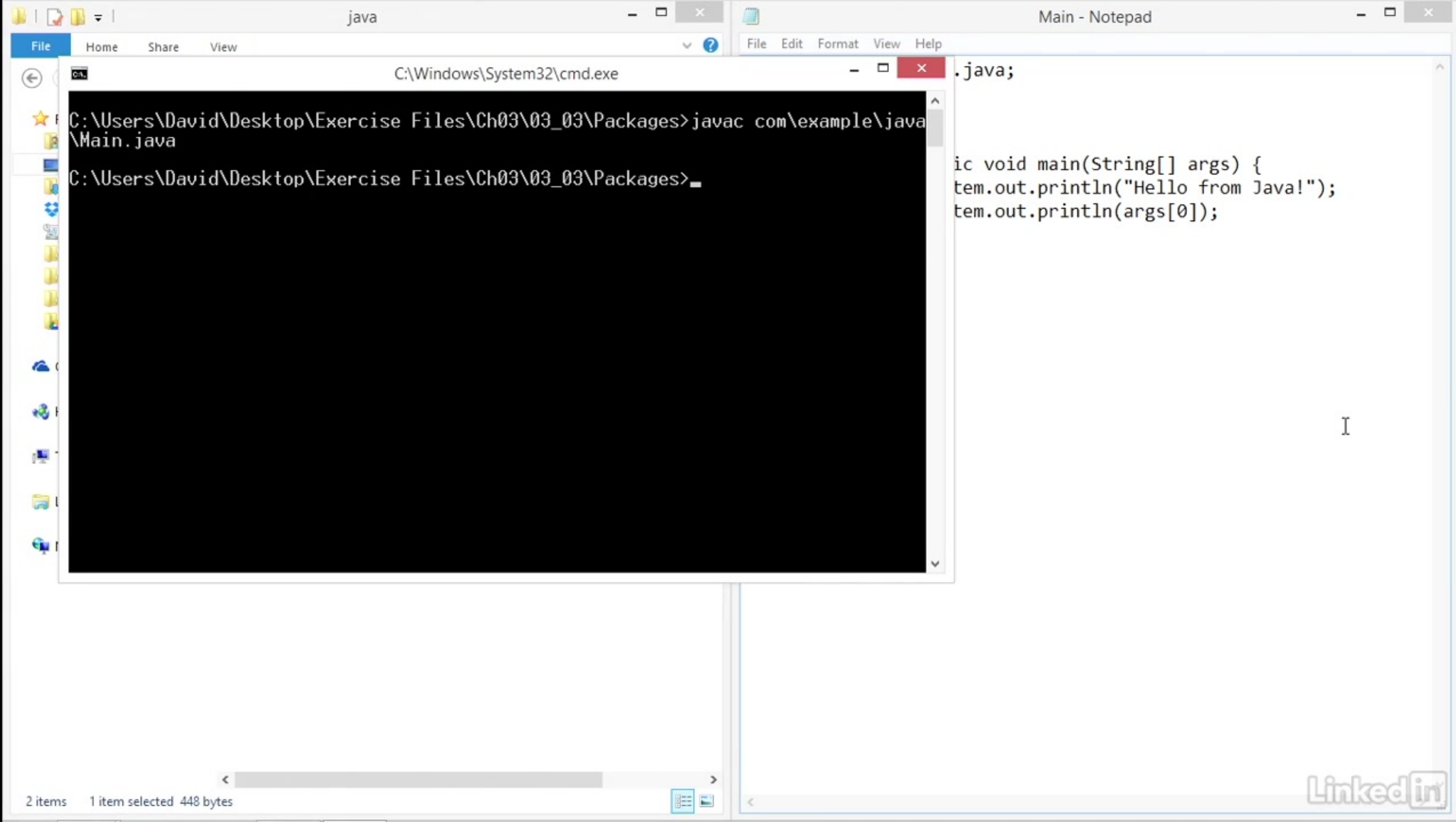
.java;  
  
ic void main(String[] args) {  
tem.out.println("Hello from Java!");  
tem.out.println(args[0]);  
}





insert subdirectory

press "tab" key



java

Main - Notepad

File

Home

Share

View

?

File

Edit

Format

View

Help

C:\Windows\System32\cmd.exe

.java;

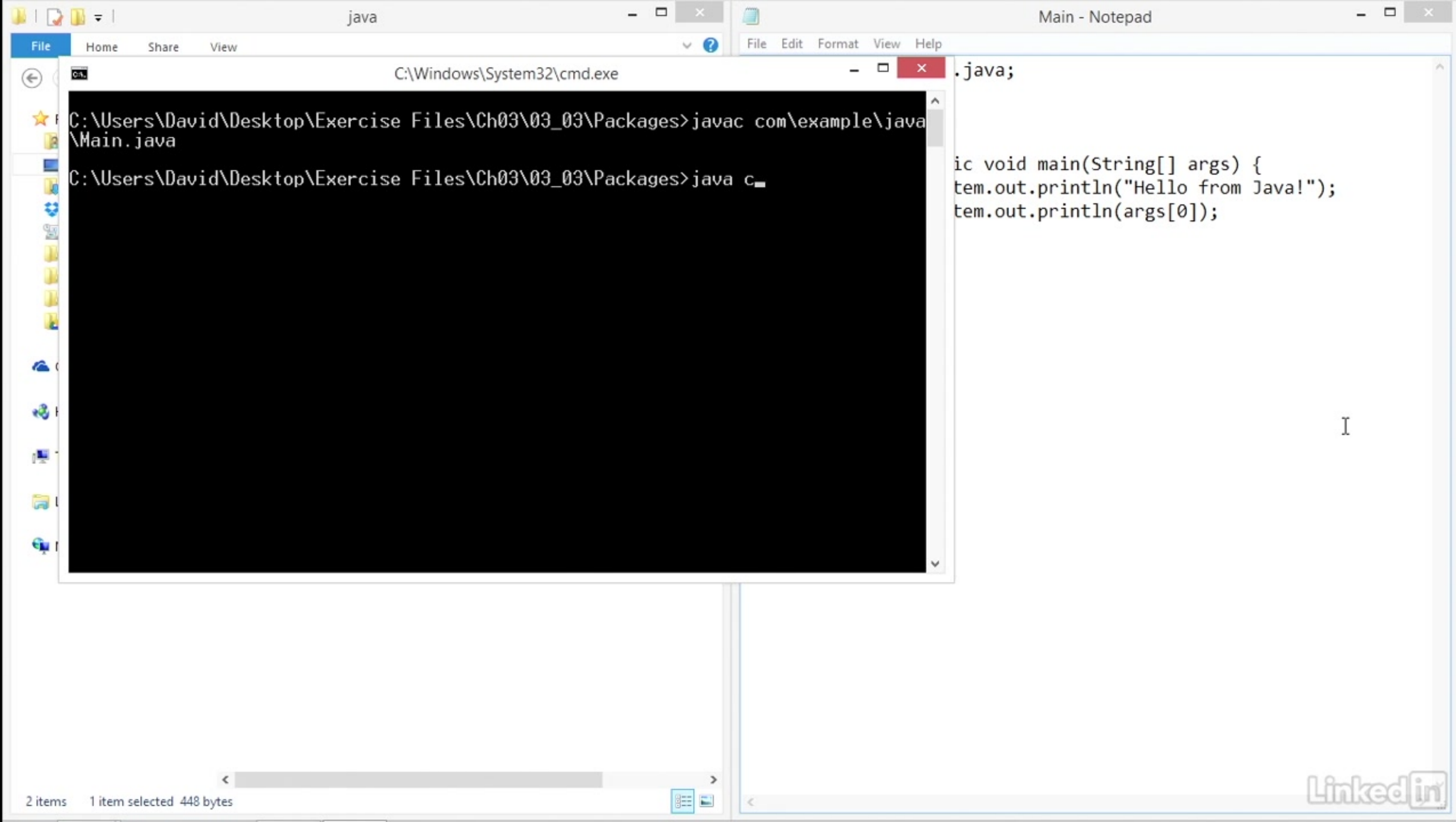
```
C:\Users\David\Desktop\Exercise Files\Ch03\03_03\Packages>javac com\example\java\Main.java
```

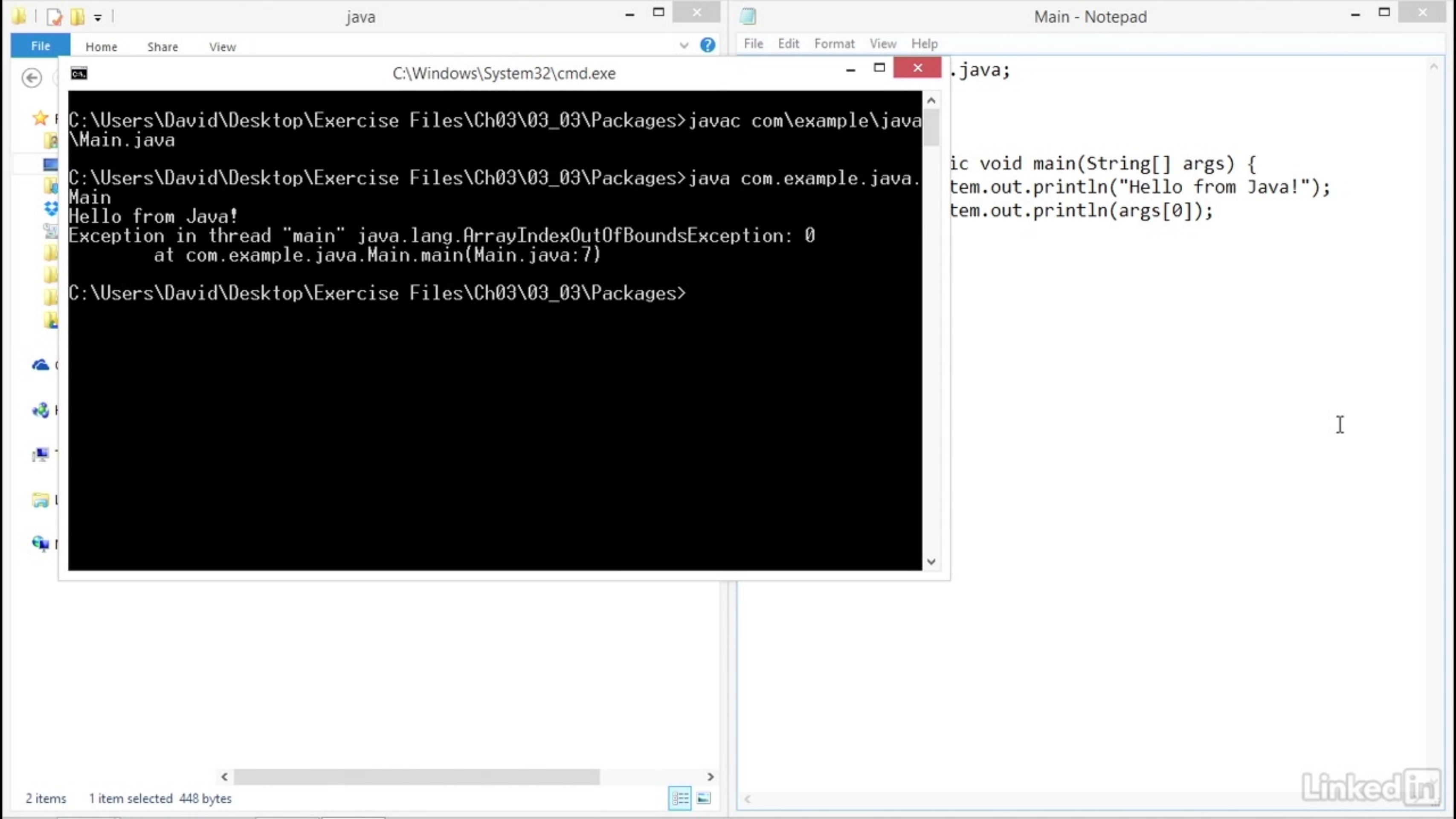
```
C:\Users\David\Desktop\Exercise Files\Ch03\03_03\Packages>_
```

```
ic void main(String[] args) {  
    tem.out.println("Hello from Java!");  
    tem.out.println(args[0]);  
}
```

2 items 1 item selected 448 bytes

LinkedIn





java

Main - Notepad

File

Home

Share

View

File

Edit

Format

View

Help

C:\Windows\System32\cmd.exe

.java;

```
C:\Users\David\Desktop\Exercise Files\Ch03\03_03\Packages>javac com\example\java
Main.java
```

```
C:\Users\David\Desktop\Exercise Files\Ch03\03_03\Packages>java com.example.java.
Main
```

```
Hello from Java!
```

```
Exception in thread "main" java.lang.ArrayIndexOutOfBoundsException: 0
    at com.example.java.Main.main(Main.java:7)
```

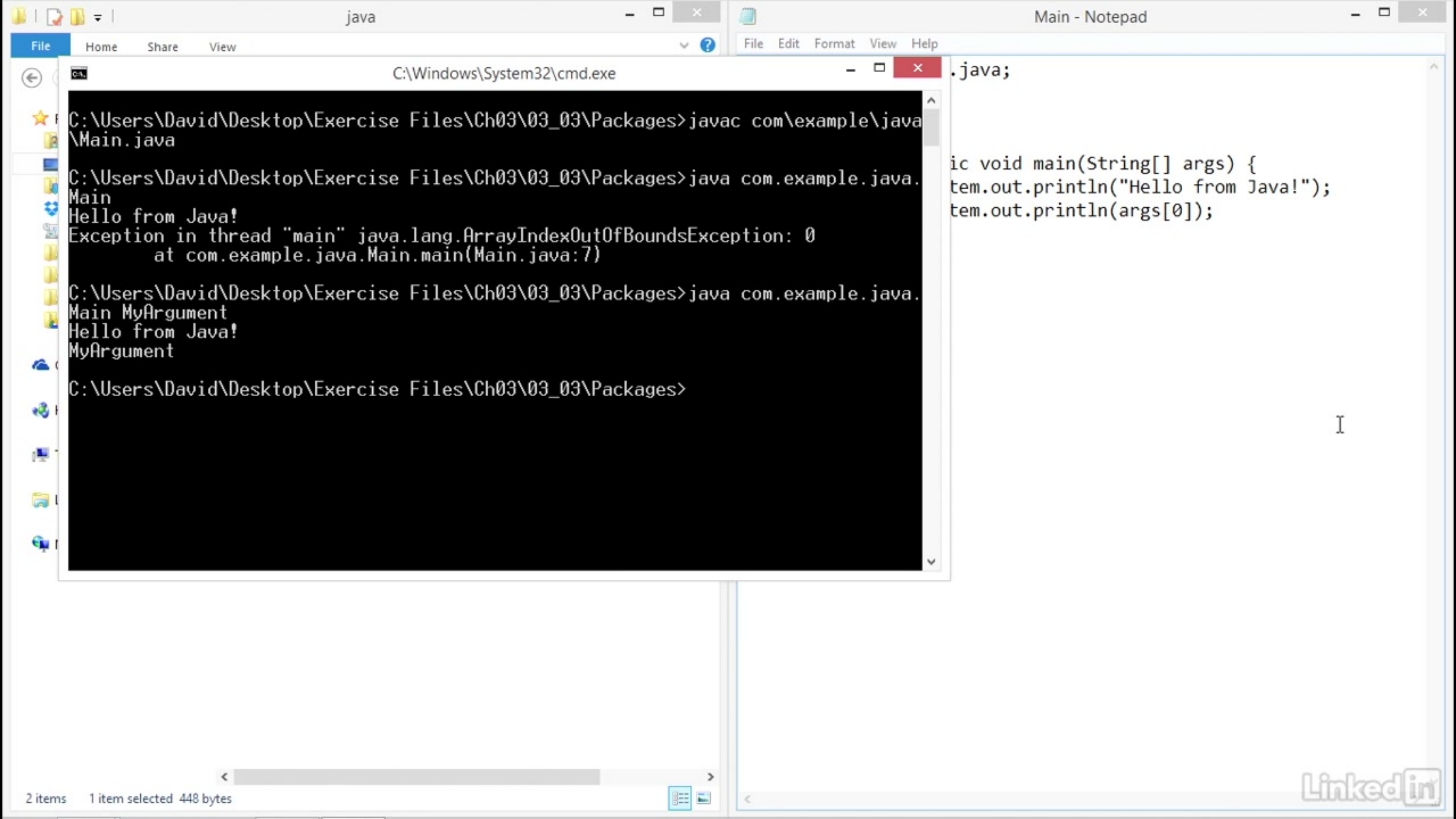
```
C:\Users\David\Desktop\Exercise Files\Ch03\03_03\Packages>
```

```
ic void main(String[] args) {
    tem.out.println("Hello from Java!");
    tem.out.println(args[0]);
}
```

I

2 items 1 item selected 448 bytes

LinkedIn



C:\Windows\System32\cmd.exe

.java;

```
C:\Users\David\Desktop\Exercise Files\Ch03\03_03\Packages>javac com\example\java
Main.java
```

```
C:\Users\David\Desktop\Exercise Files\Ch03\03_03\Packages>java com.example.java.
Main
```

```
Hello from Java!
```

```
Exception in thread "main" java.lang.ArrayIndexOutOfBoundsException: 0
    at com.example.java.Main.main(Main.java:7)
```

```
C:\Users\David\Desktop\Exercise Files\Ch03\03_03\Packages>java com.example.java.
Main MyArgument
```

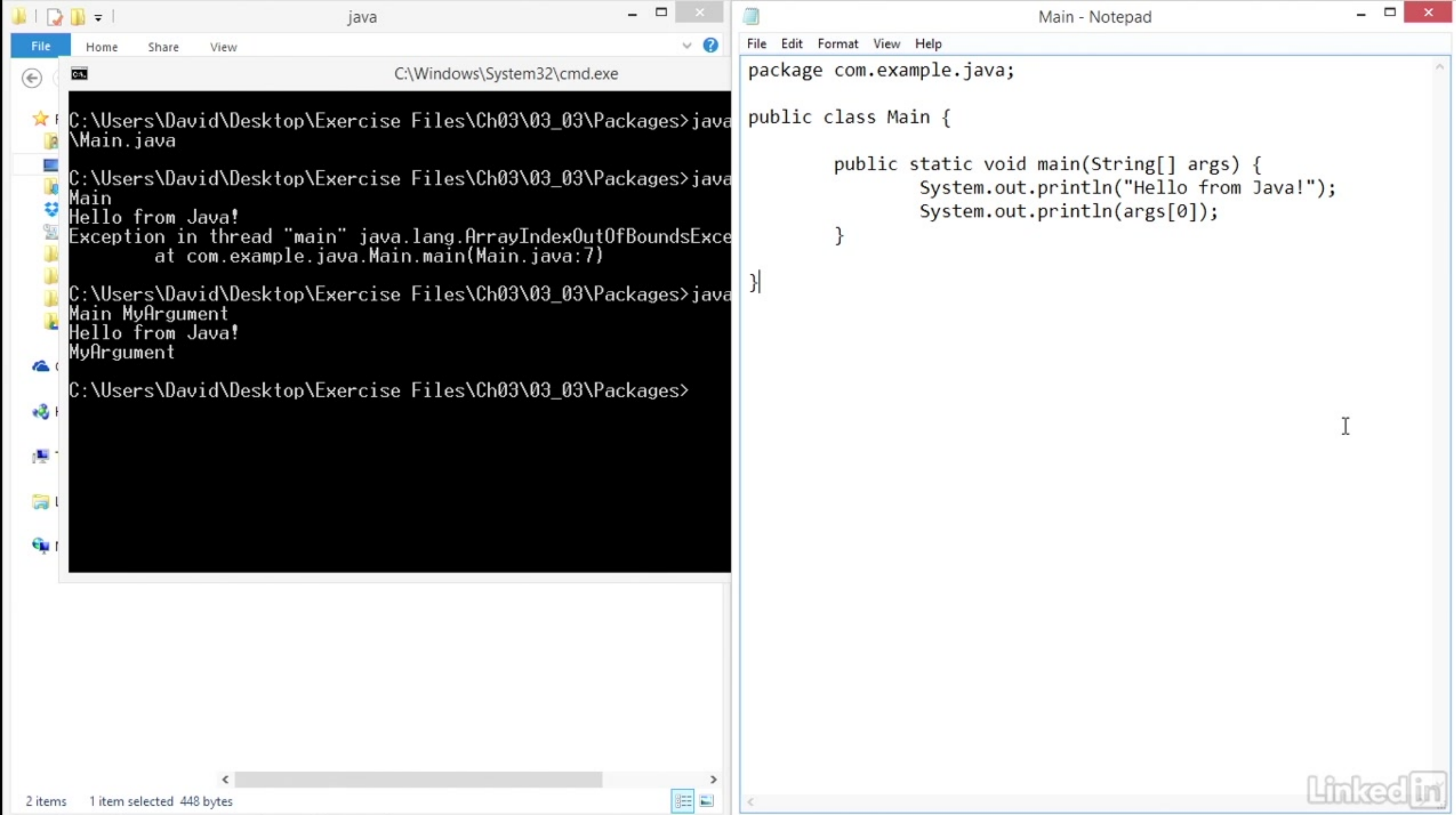
```
Hello from Java!
```

```
MyArgument
```

```
C:\Users\David\Desktop\Exercise Files\Ch03\03_03\Packages>
```

```
ic void main(String[] args) {
    tem.out.println("Hello from Java!");
    tem.out.println(args[0]);
}
```



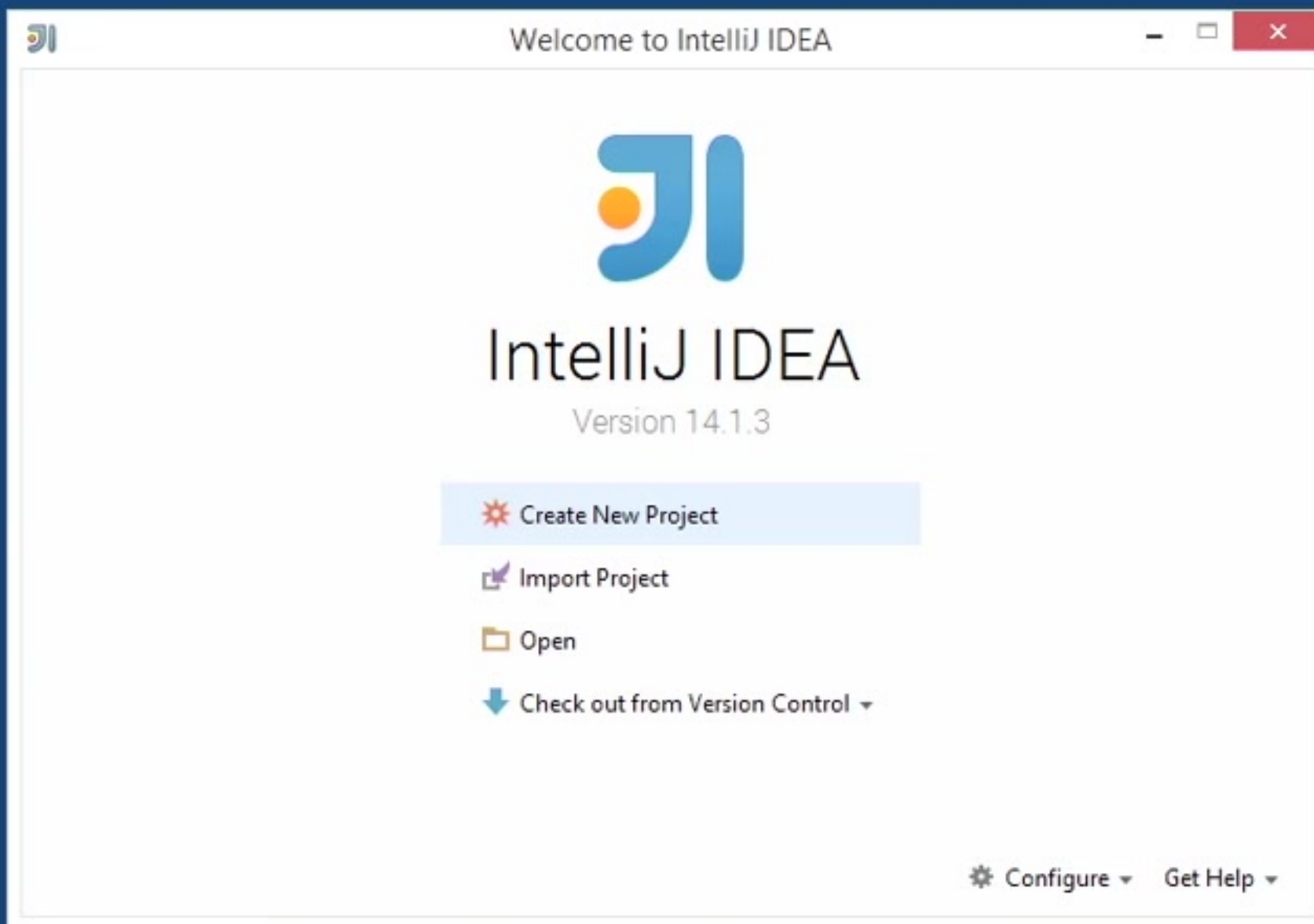




Recycle Bin



Exercise Files

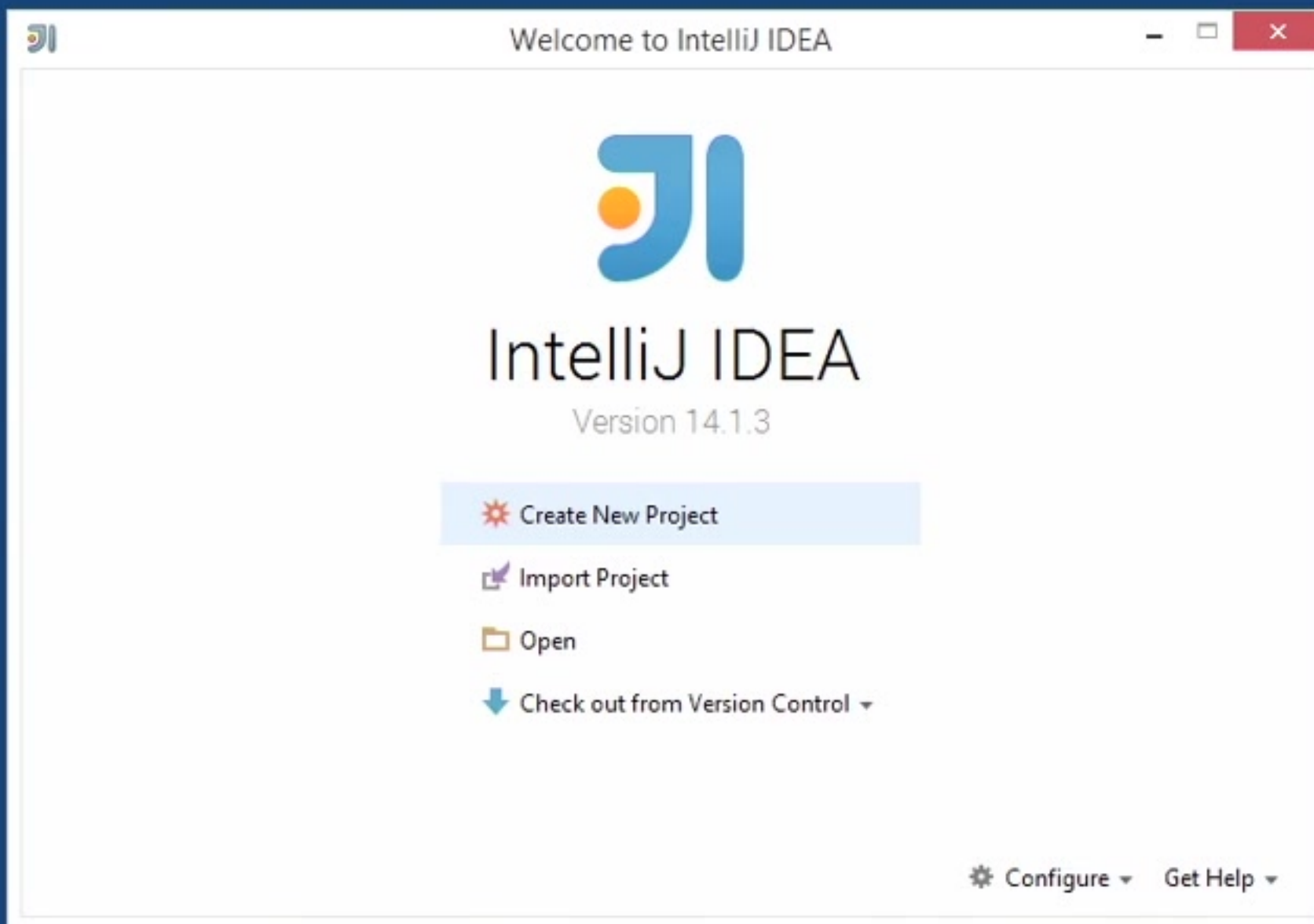




Recycle Bin



Exercise Files

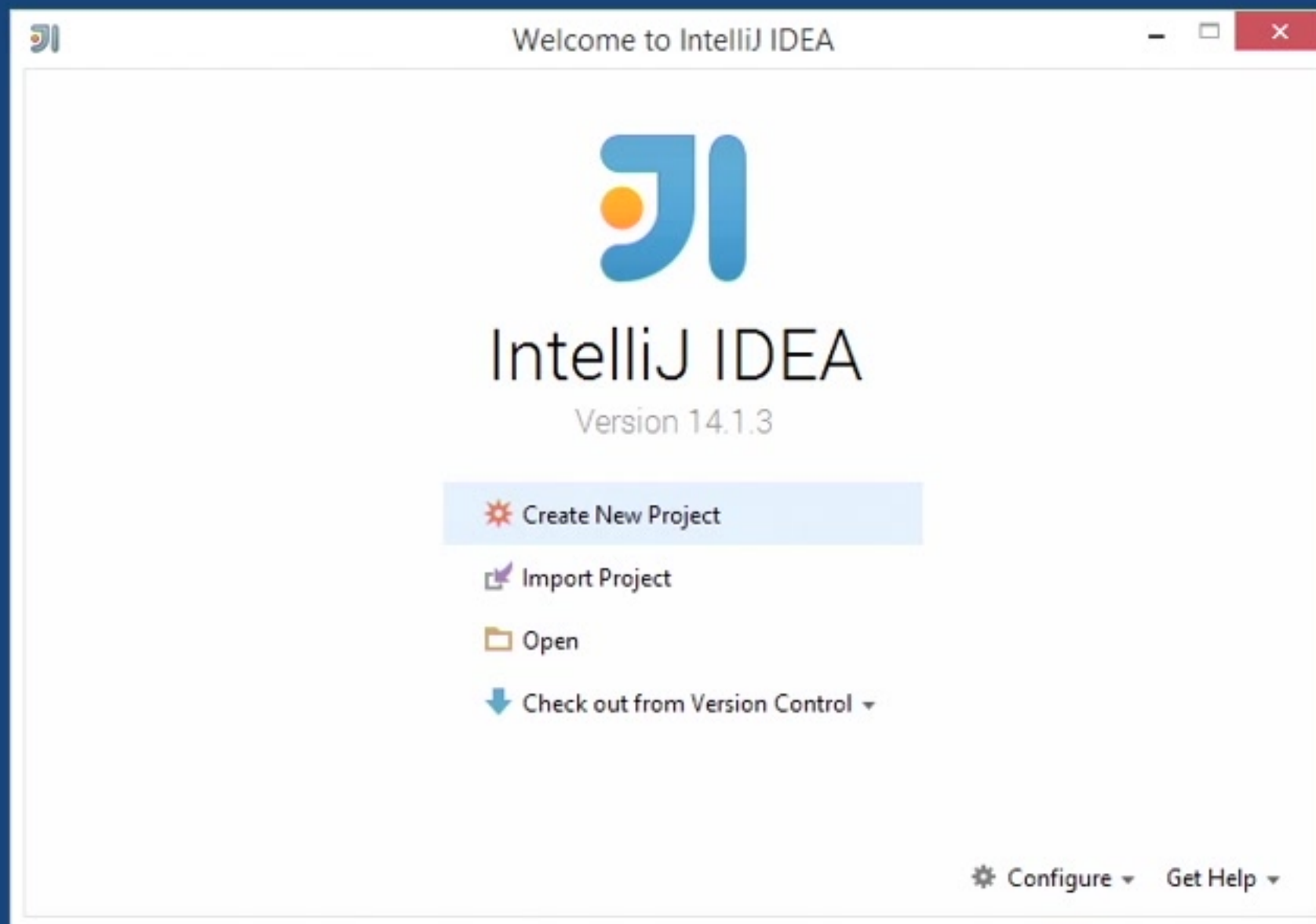




Recycle Bin



Exercise Files







Recycle Bin



Exercise Files

New Project

Java

Android

Java FX

IntelliJ Platform Plugin

Maven

Gradle

Groovy

Griffon

Empty Project

Project SDK:

1.8 (java version "1.8.0\_45")

New...

Additional Libraries and Frameworks:

☐ Groovy

Use library:

[No library selected]

Create...

Error: library is not specified

Previous

Next

Cancel

Help







Recycle Bin




Exercise Files

New Project

Project name:

Project location:



Base package:

Previous

Finish

Cancel

Help



Recycle Bin



Exercise Files

New Project

Project name: IDEASProject

Project location: C:\Users\David\Desktop\Exercise Files\Ch03\03\_04

Base package: com.company

Previous Finish Cancel Help


Exercise Files > Ch03 > 03\_04



Recycle Bin



Exercise Files

 New Project ✕

Project name:

Project location:  ...

Base package:



Recycle Bin



Exercise Files

New Project

Project name:

IDEAProject

Project location:

C:\Users\David\Desktop\Exercise Files\Ch03\03\_04\IDEAProject

...

Base package:

com.example.java

Directory Does Not Exist

The project file directory  
"C:\Users\David\Desktop\Exercise Files\Ch03\03\_04\IDEAProject"  
does not exist. It will be created by IntelliJ IDEA.

OK

Cancel

Previous

Finish

Cancel

Help

IDEAProject

Main

Project Main.java x

IDEAProject (C:\Users\David\Desktop\Exercise Files\Ch03\03\_04\IDEAProject) com.example.java;

External Libraries

```
2
3 public class Main {
4
5     public static void main(String[] args) {
6         // write your code here
7     }
8
9 }
```



```
1 package com.example.java;
2
3 public class Main {
4
5     public static void main(String[] args) {
6         // write your code here
7     }
8 }
9
```



File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

- New
- Open...
- Reopen Project
- Close Project
- Settings... Ctrl+Alt+S
- Project Structure... Ctrl+Alt+Shift+S
- Other Settings
- Import Settings...
- Export Settings...
- Export to Eclipse...
- Save All Ctrl+S
- Synchronize Ctrl+Alt+Y
- Invalidate Caches / Restart...
- Export to HTML...
- Print...
- Add to Favorites
- File Encoding
- Line Separators
- Make File Read-only
- Power Save Mode
- Exit

Main.java x

```
1 package com.example.java;  
2  
3 public class Main {  
4  
5     public static void main(String[] args) {  
6         // write your code here  
7     }  
8 }  
9
```





IDEAProject

Main

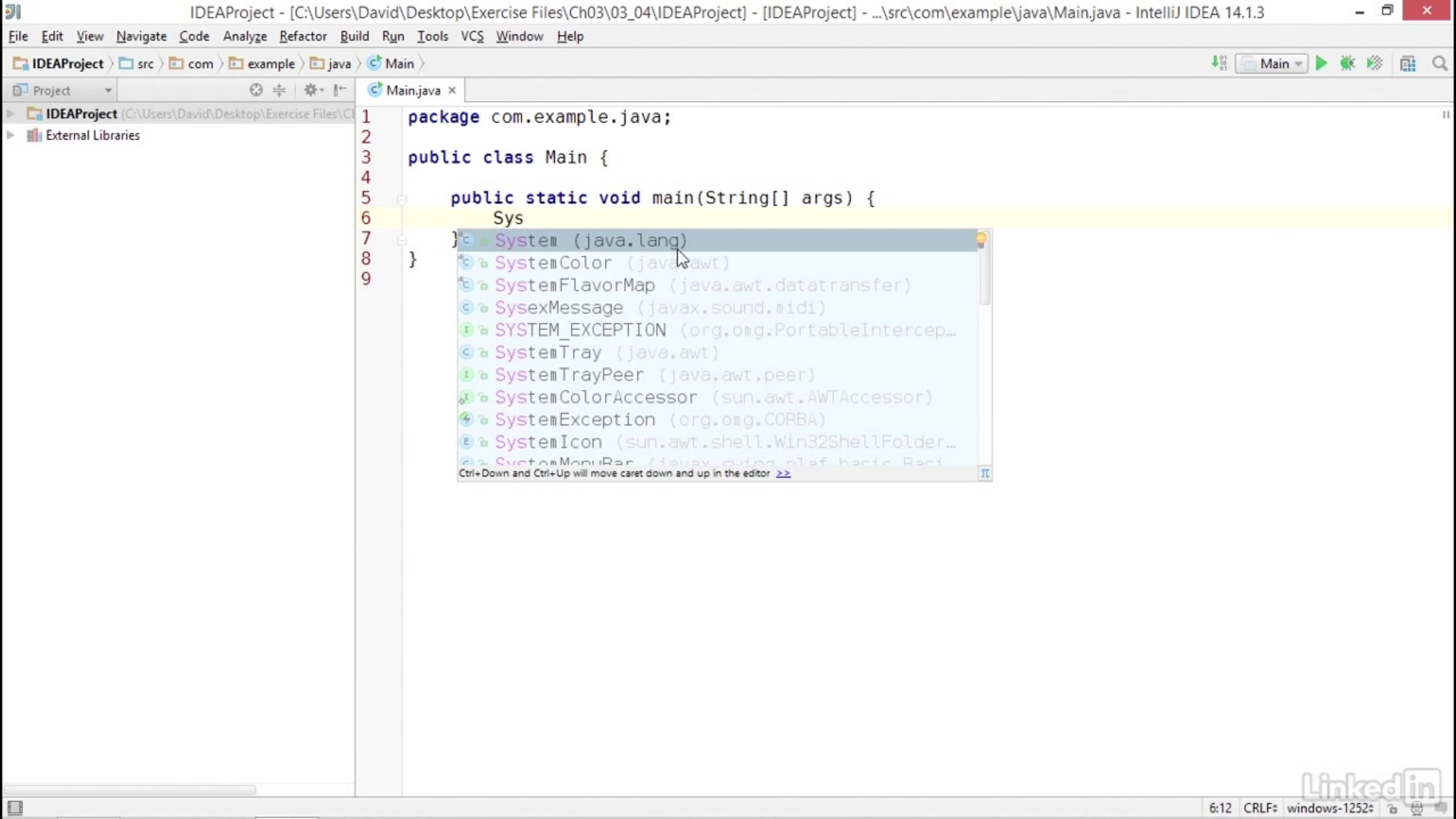
Project

Main.java x

IDEAProject (C:\Users\David\Desktop\Exercise Files\Ch03\03\_04\IDEAProject)

External Libraries

```
1 package com.example.java;
2
3 public class Main {
4
5     public static void main(String[] args) {
6         // write your code here
7     }
8 }
9
```



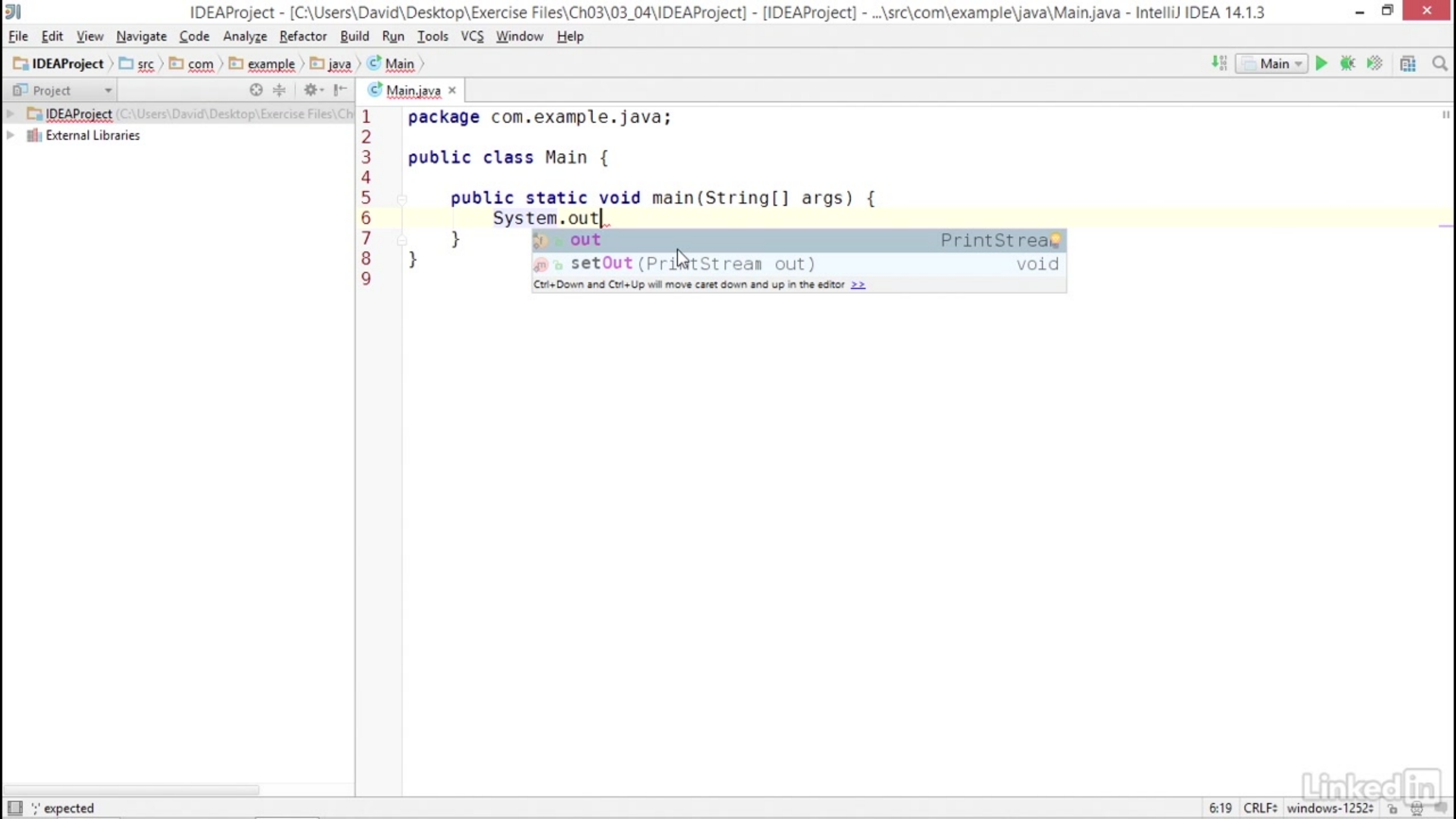


```
1 package com.example.java;
2
3 public class Main {
4
5     public static void main(String[] args) {
6         Sys
7     }
8
9
```

- System (java.lang)
- SystemColor (java.awt)
- SystemFlavorMap (java.awt.datatransfer)
- SystemErrorMessage (javax.sound.midi)
- SYSTEM\_EXCEPTION (org.omg.PortableIntercep...
- SystemTray (java.awt)
- SystemTrayPeer (java.awt.peer)
- SystemColorAccessor (sun.awt.AWTAccessor)
- SystemException (org.omg.CORBA)
- SystemIcon (sun.awt.shell.Win32ShellFolder...
- SystemMenuBar (javax.swing.plaf.basic.Basic...

Ctrl+Down and Ctrl+Up will move caret down and up in the editor >>





```
1 package com.example.java;  
2  
3 public class Main {  
4  
5     public static void main(String[] args) {  
6         System.out.  
7     }  
8 }  
9
```

- flush() void
- append(char c) PrintStream
- format(Locale l, String format... PrintStream
- format(String format, Object... PrintStream
- print(boolean b) void
- print(char c) void
- print(char[] s) void
- print(double d) void
- print(float f) void
- print(int i) void
- print(long l) void

Ctrl+Down and Ctrl+Up will move caret down and up in the editor >>

```
1 package com.example.java;
2
3 public class Main {
4
5     public static void main(String[] args) {
6         System.out.println
7     }
8 }
9
```

println()	void
println(boolean x)	void
println(char x)	void
println(char[] x)	void
println(double x)	void
println(float x)	void
println(int x)	void
println(long x)	void
println(Object x)	void
println(String x)	void

Ctrl+Down and Ctrl+Up will move caret down and up in the editor >>

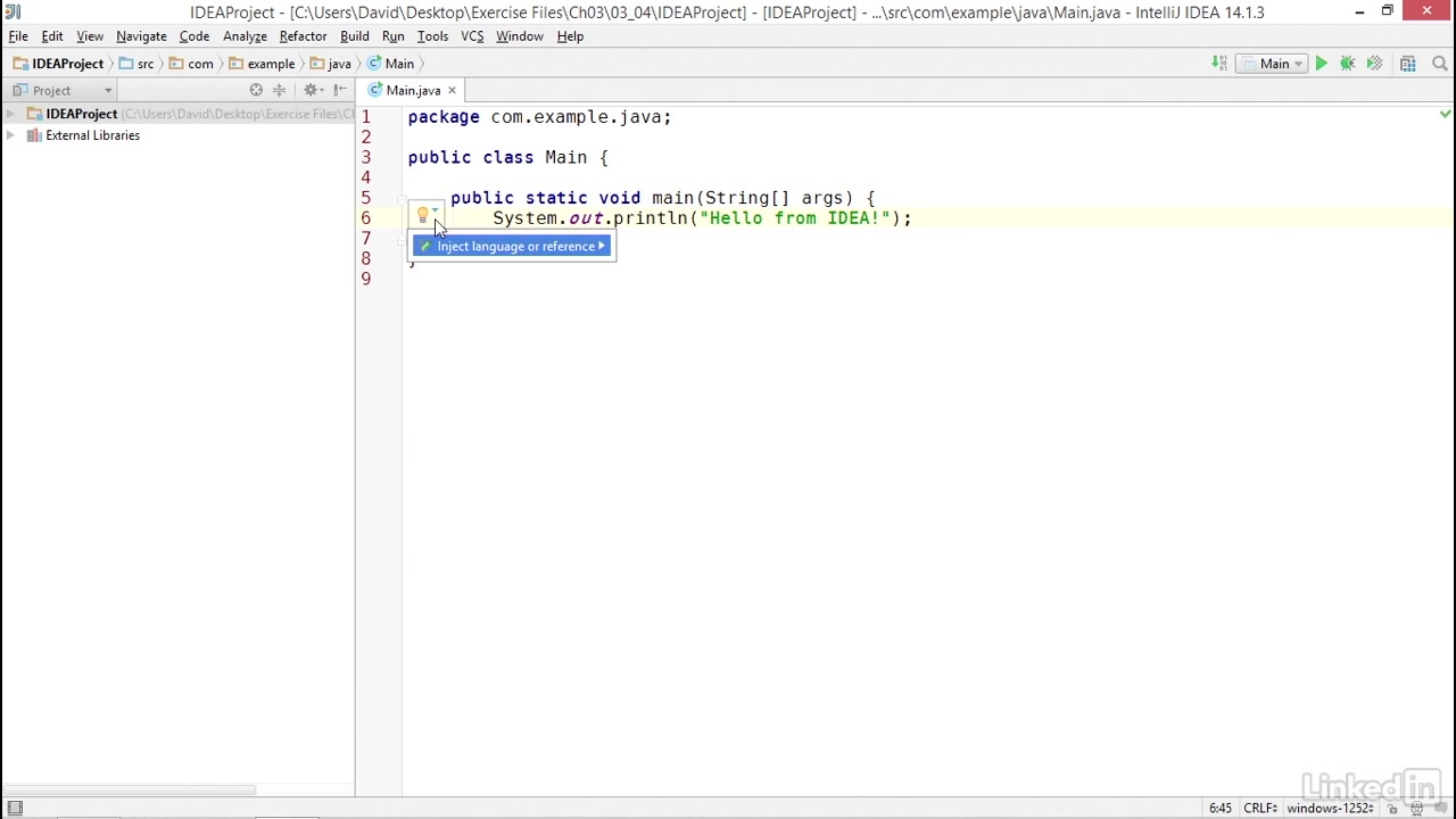


```

1 package com.example.java;
2
3 public class Main {
4
5     public static void main(String[] args) {
6         System.out.println("Hello from ID");
7     }
8 }
9

```

- <no parameters>
- boolean x
- char x
- int x
- long x
- float x
- double x
- @NotNull char[] x
- String x
- @Nullable Object x





```

1
2
3
4
5
6
7
8
9
    ng[] args) {
    o from IDEA!");

```

IDEAProject > src > com > example > java > Run

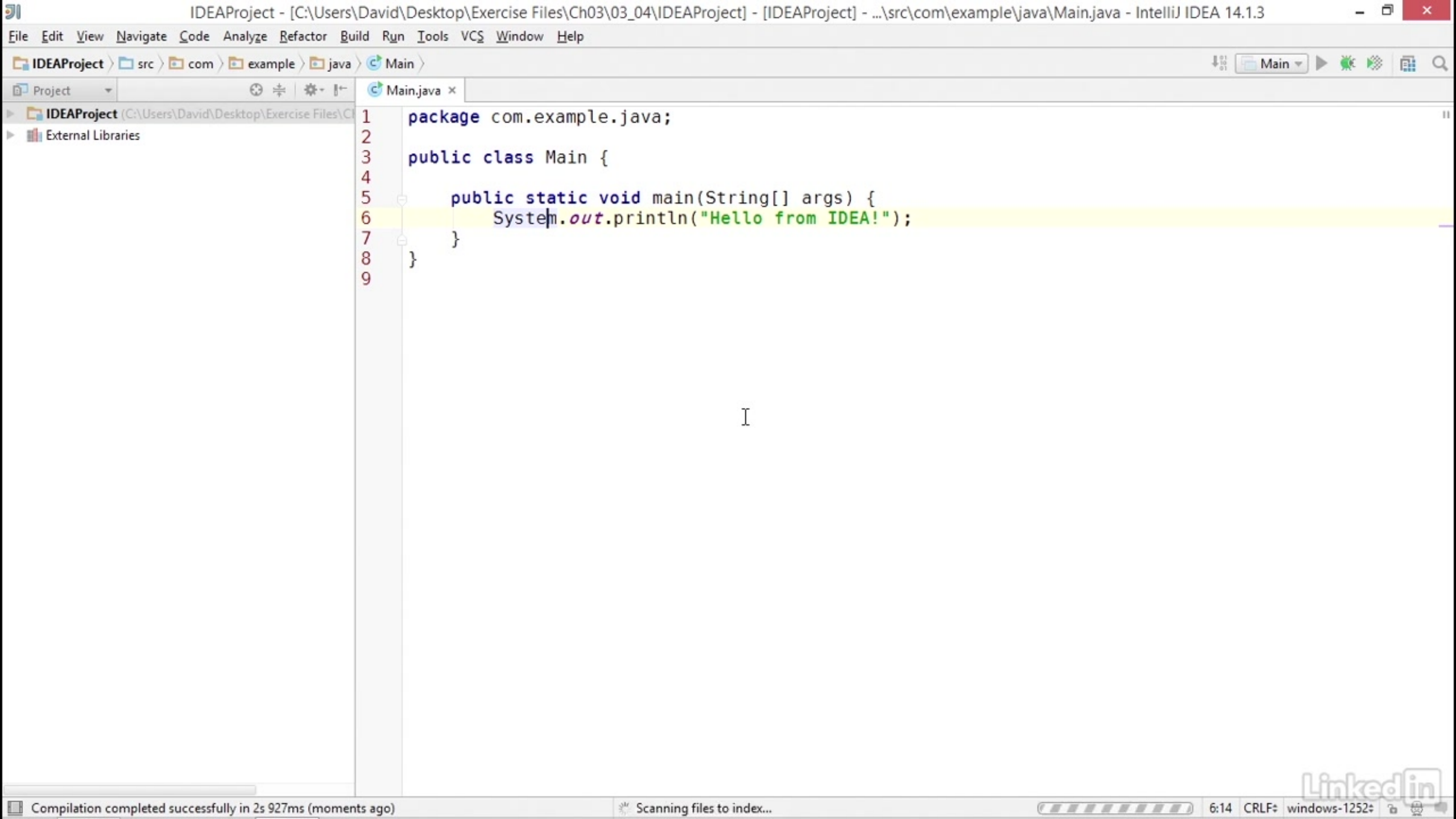
Project

IDEAProject (C:\Users\David\Desktop\Exercise Files\Ch03\03\_04\IDEAProject - [IDEAProject] - ...src\com\example\java\Main.java - IntelliJ IDEA 14.1.3)

External Libraries

- 1 Run 'Main' Shift+F10
- 2 Debug 'Main' Shift+F9
- 3 Run 'Main' with Coverage
- 4 Run... Alt+Shift+F10
- 5 Debug... Alt+Shift+F9
- 6 Edit Configurations...
- 7 Stop Ctrl+F2
- 8 Reload Changed Classes
- 9 Step Over F8
- Force Step Over Alt+Shift+F8
- Step Into F7
- Force Step Into Alt+Shift+F7
- Smart Step Into Shift+F7
- Step Out Shift+F8
- Run to Cursor Alt+F9
- Force Run to Cursor Ctrl+Alt+F9
- Drop Frame
- Pause Program
- Resume Program F9
- Evaluate Expression... Alt+F8
- Quick Evaluate Expression Ctrl+Alt+F8
- Show Execution Point Alt+F10
- Toggle Line Breakpoint Ctrl+F8
- Toggle Method Breakpoint
- Toggle Temporary Line Breakpoint Ctrl+Alt+Shift+F8
- Toggle Breakpoint Enabled
- View Breakpoints... Ctrl+Shift+F8
- Get thread dump

```
ng[] args) {
    o from IDEA!");
```



```
1 package com.example.java;  
2  
3 public class Main {  
4  
5     public static void main(String[] args) {  
6         System.out.println("Hello from IDEA!");  
7     }  
8 }  
9  
10
```

```
"C:\Program ...  
Hello from IDEA!  
  
Process finished with exit code 0
```



```
1 package com.example.java;
2
3 public class Main {
4
5     public static void main(String[] args) {
6         System.out.println("Hello from IDEA!");
7         String aString = "David";
8     }
9 }
10
11
```

```
"C:\Program ...
Hello from IDEA!

Process finished with exit code 0
```



```
1 package com.example.java;  
2  
3 public class Main {  
4  
5     public static void main(String[] args) {  
6         System.out.println("Hello from IDEA!");  
7         String aString = "David";  
8         System.out.println(|);  
9     }  
10 }  
11
```

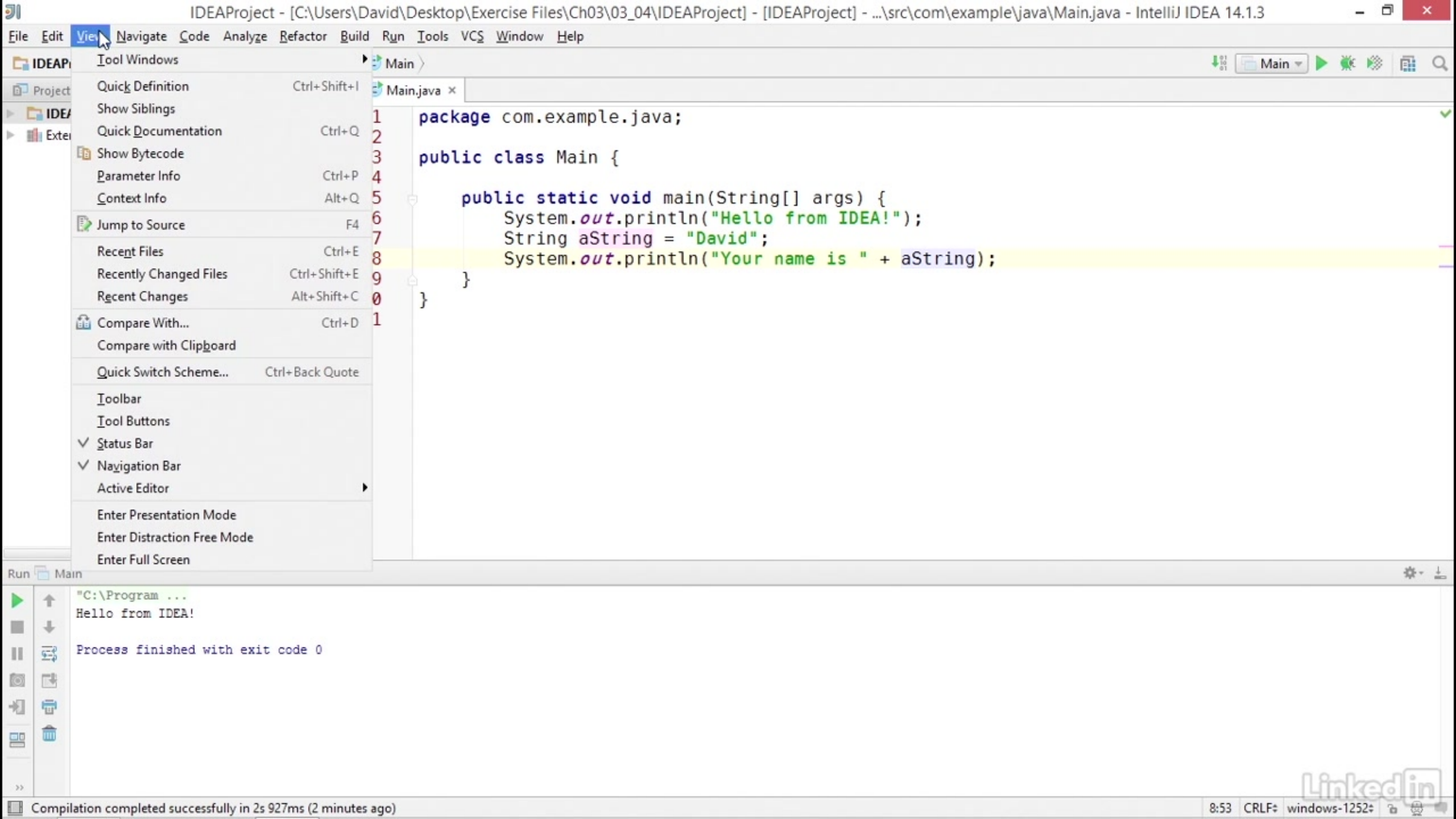
```
"C:\Program ...  
Hello from IDEA!  
  
Process finished with exit code 0
```

```
1 package com.example.java;
2
3 public class Main {
4
5     public static void main(String[] args) {
6         System.out.println("Hello from IDEA!");
7         String aString = "David";
8         System.out.println("Your name is " + aString);
9     }
10 }
11
```

aString String  
Press Ctrl+Space to see non-imported classes >>

```
"C:\Program ...
Hello from IDEA!

Process finished with exit code 0
```

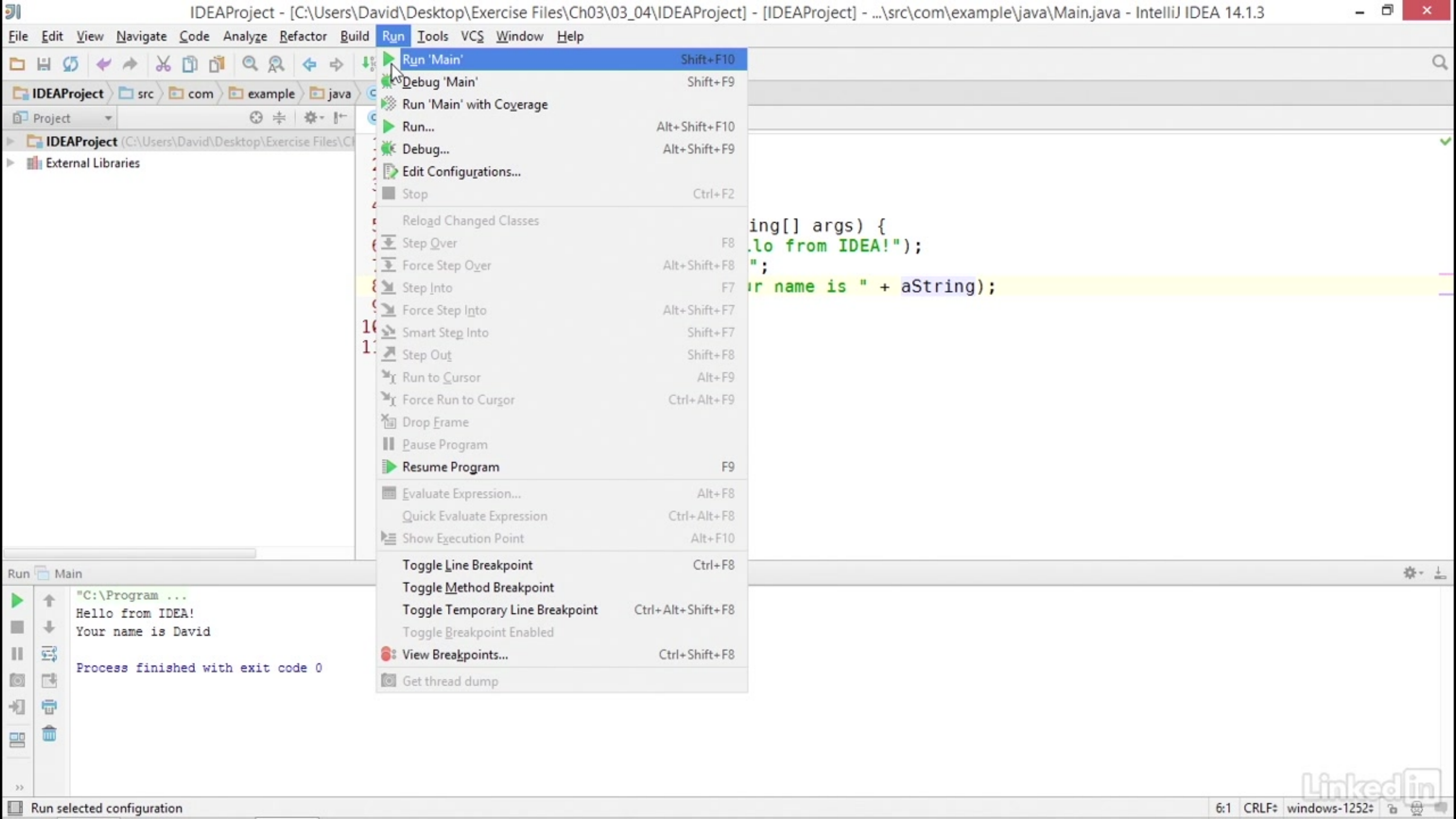




```
1 package com.example.java;
2
3 public class Main {
4
5     public static void main(String[] args) {
6         System.out.println("Hello from IDEA!");
7         String aString = "David";
8         System.out.println("Your name is " + aString);
9     }
10 }
11
```

```
"C:\Program ...
Hello from IDEA!
Your name is David

Process finished with exit code 0
```







Recycle Bin



Exercise Files

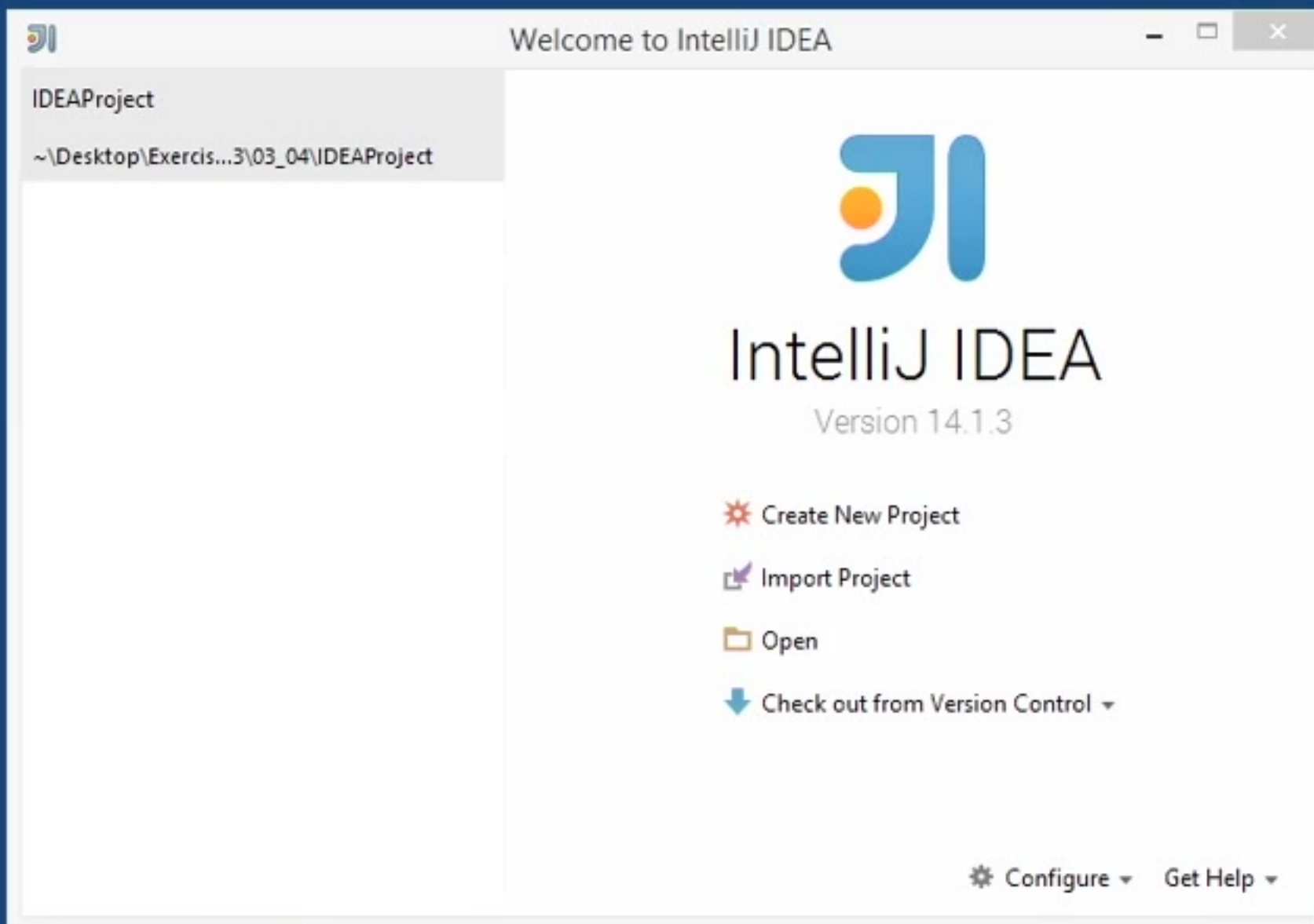




Recycle Bin



Exercise Files

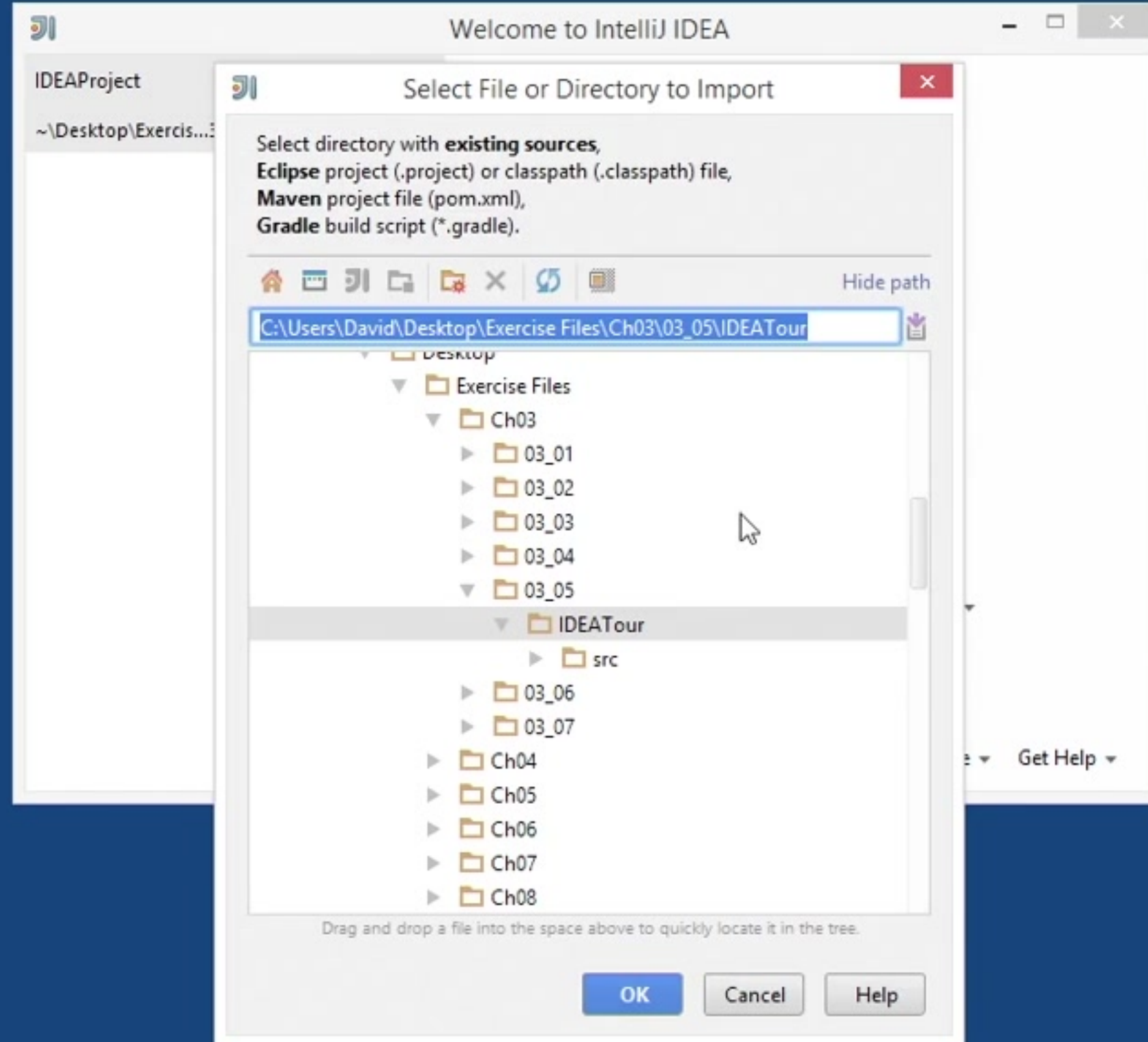




Recycle Bin



Exercise Files

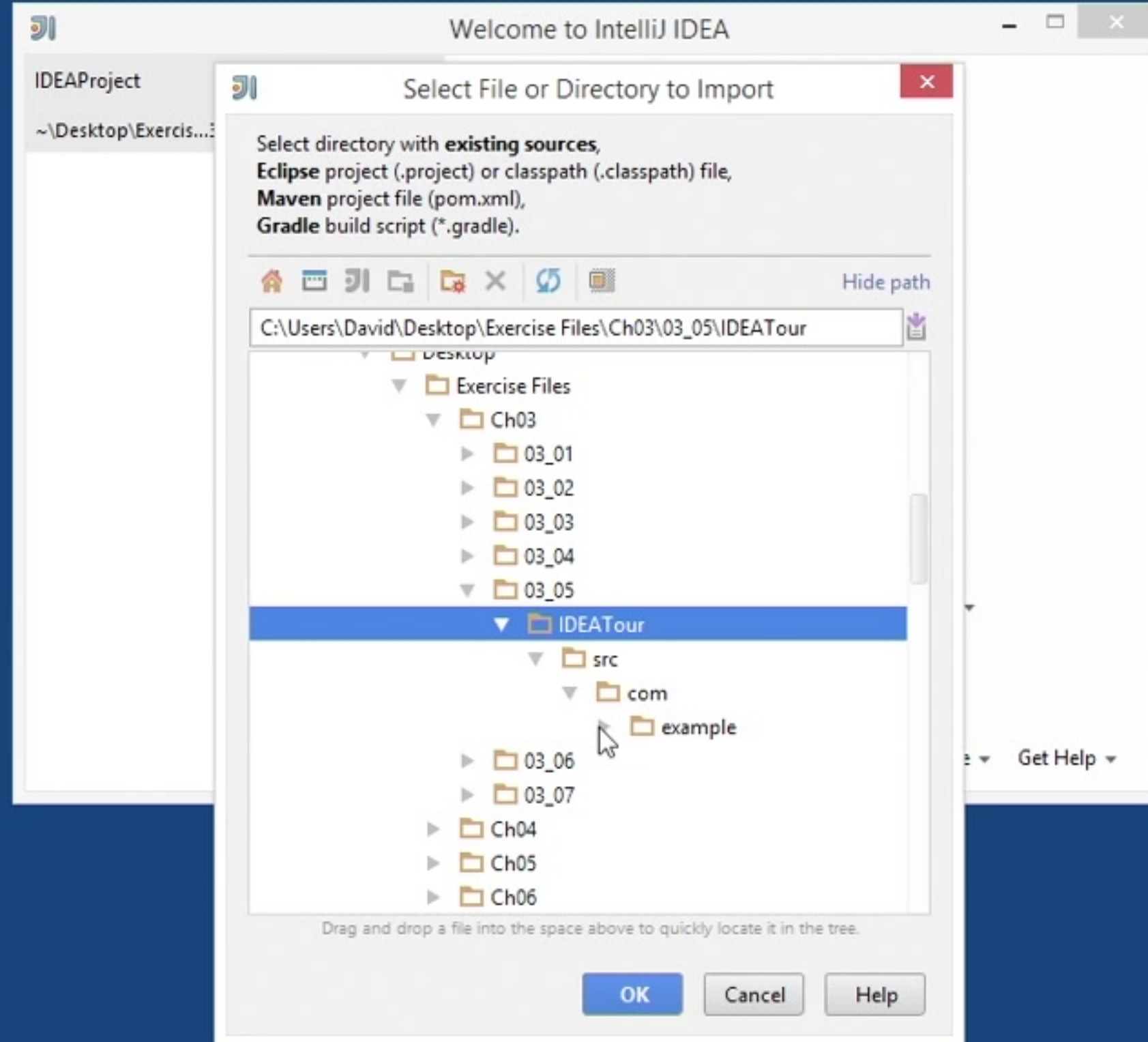




Recycle Bin



Exercise Files








Recycle Bin

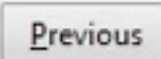
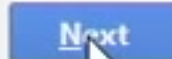
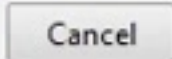
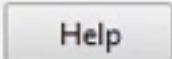


Exercise Files

 Import Project 

Project name:

Project location:  





IDEATour

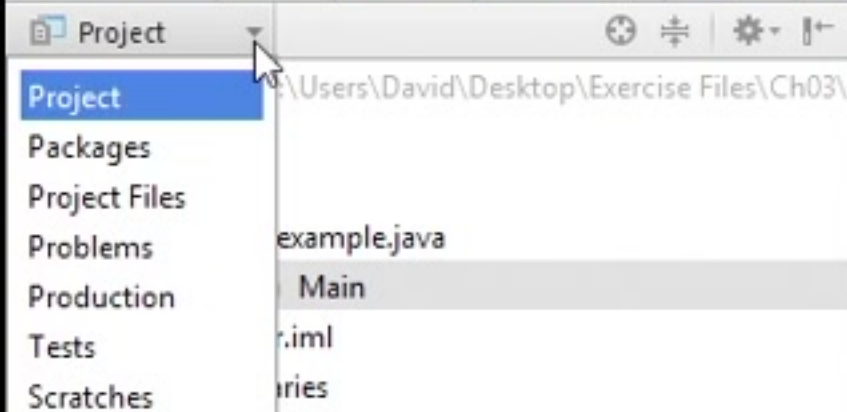
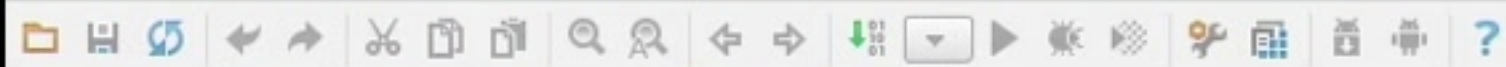
Project

IDEATour (C:\Users\David\Desktop\Exercise Files\Ch03\)

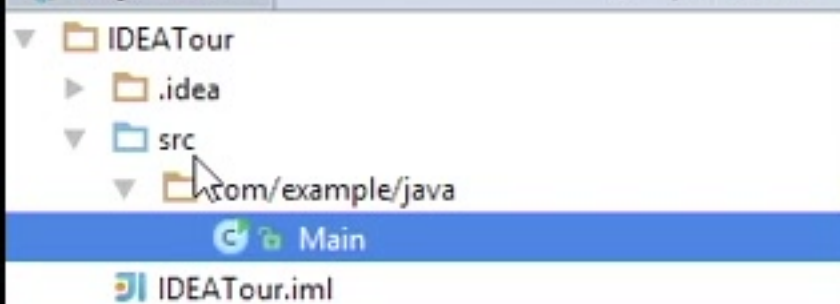
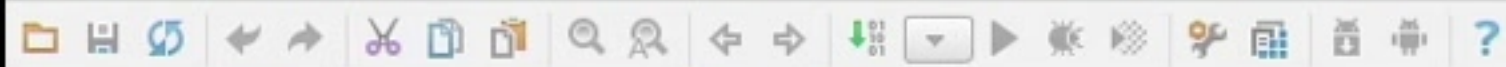
- ▶ .idea
- ▶ src
- IDEATour.iml
- ▶ External Libraries

## No files are open

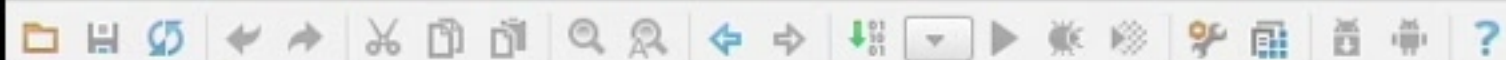
- Search Everywhere with Double Shift
- Open a file by name with Ctrl+Shift+N
- Open Recent Files with Ctrl+E
- Open Navigation Bar with Alt+Home
- Drag and Drop file(s) here from Explorer



```
1 package com.example.java;
2
3 public class Main {
4
5     public static void main(String[] args) {
6         System.out.println("Hello from IDEA!");
7         String aString = "David";
8         System.out.println("Your name is " + aString);
9     }
10 }
11
```



```
1 package com.example.java;
2
3 public class Main {
4
5     public static void main(String[] args) {
6         System.out.println("Hello from IDEA!");
7         String aString = "David";
8         System.out.println("Your name is " + aString);
9     }
10 }
11
```



Nothing to show

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <module type="JAVA_MODULE" version="4">
3   <component name="NewModuleRootManager" inherit-compiler-output="true">
4     <exclude-output />
5     <content url="file://$MODULE_DIR$">
6       <sourceFolder url="file://$MODULE_DIR$/src" isTestSource="false" />
7     </content>
8     <orderEntry type="inheritedJdk" />
9     <orderEntry type="sourceFolder" forTests="false" />
10  </component>
11 </module>
```





```
1 package com.example.java;
2
3 public class Main {
4
5     public static void main(String[] args) {
6         System.out.println("Hello from IDEA!");
7         String aString = "David";
8         System.out.println("Your name is " + aString);
9     }
10 }
11
```

TODO

Event Log

Maven Projects

Terminal

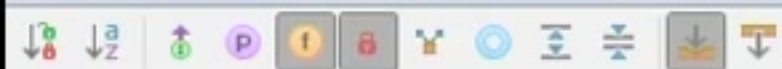
Project

Structure

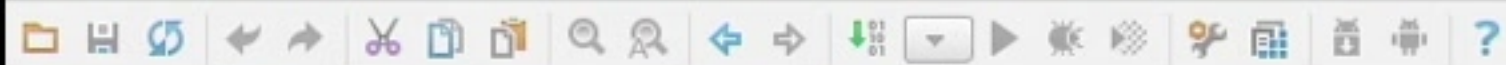
Ant Build

Favorites



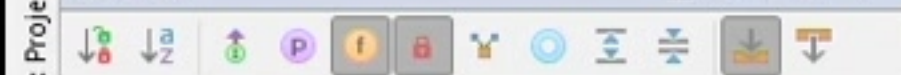


```
1 package com.example.java;
2
3 public class Main {
4
5     public static void main(String[] args) {
6         System.out.println("Hello from IDEA!");
7         String aString = "David";
8         System.out.println("Your name is " + aString);
9     }
10 }
11
```



IDEATour src com example java Main

Structure



Main

main(String[]): void

2: Favorites

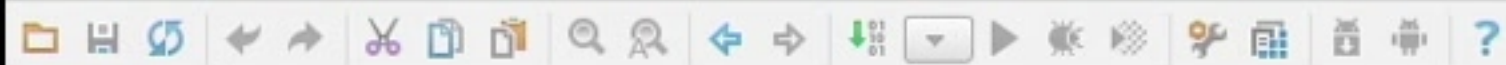
Main.java x

```
1 package com.example.java;
2
3 public class Main {
4
5     public static void main(String[] args) {
6         System.out.println("Hello from IDEA!");
7         String aString = "David";
8         System.out.println("Your name is " + aString);
9     }
10 }
11
```

m

Maven Projects

Ant Build



IDEATour

Project

IDEATour (C:\Users\David\Desktop\Exercise Files\Ch03\03\_05\IDEATour)

.idea

src

com.example.java

Main

IDEATour.iml

External Libraries

Main.java x

1 package com.example.java;

2

3 public class Main {

4

5 public static void main(String[] args) {

6 System.out.println("Hello from IDEA!");

7 String aString = "David";

8 System.out.println("Your name is " + aString);

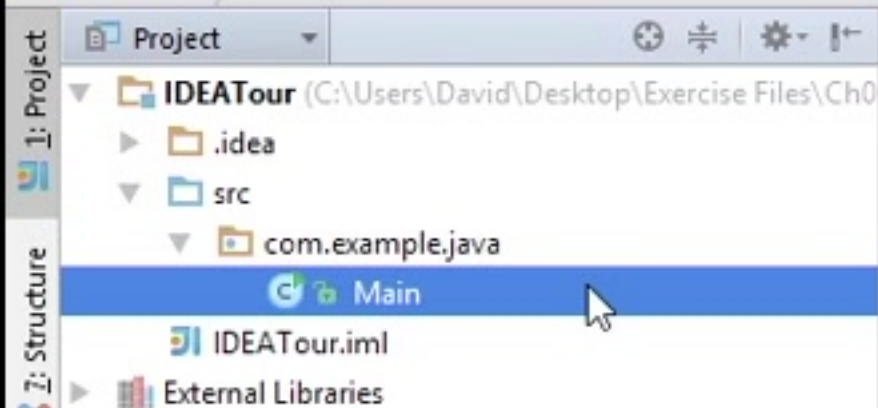
9 }

10 }

11



IDEATour



Main.java x

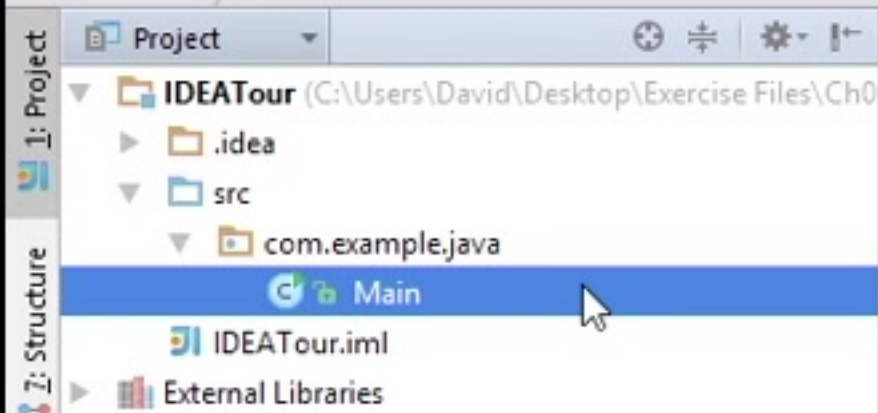
```
1 package com.example.java;
2
3 public class Main {
4
5     public static void main(String[] args) {
6         System.out.println("Hello from IDEA!");
7         String aString = "David";
8         System.out.println("Your name is " + aString);
9     }
10 }
11
```

2: Favorites





IDEATour



Main.java x

```
1 package com.example.java;
2
3 public class Main {
4
5     public static void main(String[] args) {
6         System.out.println("Hello from IDEA!");
7         String aString = "David";
8         System.out.println("Your name is " + aString);
9     }
10 }
11
```

2: Favorites

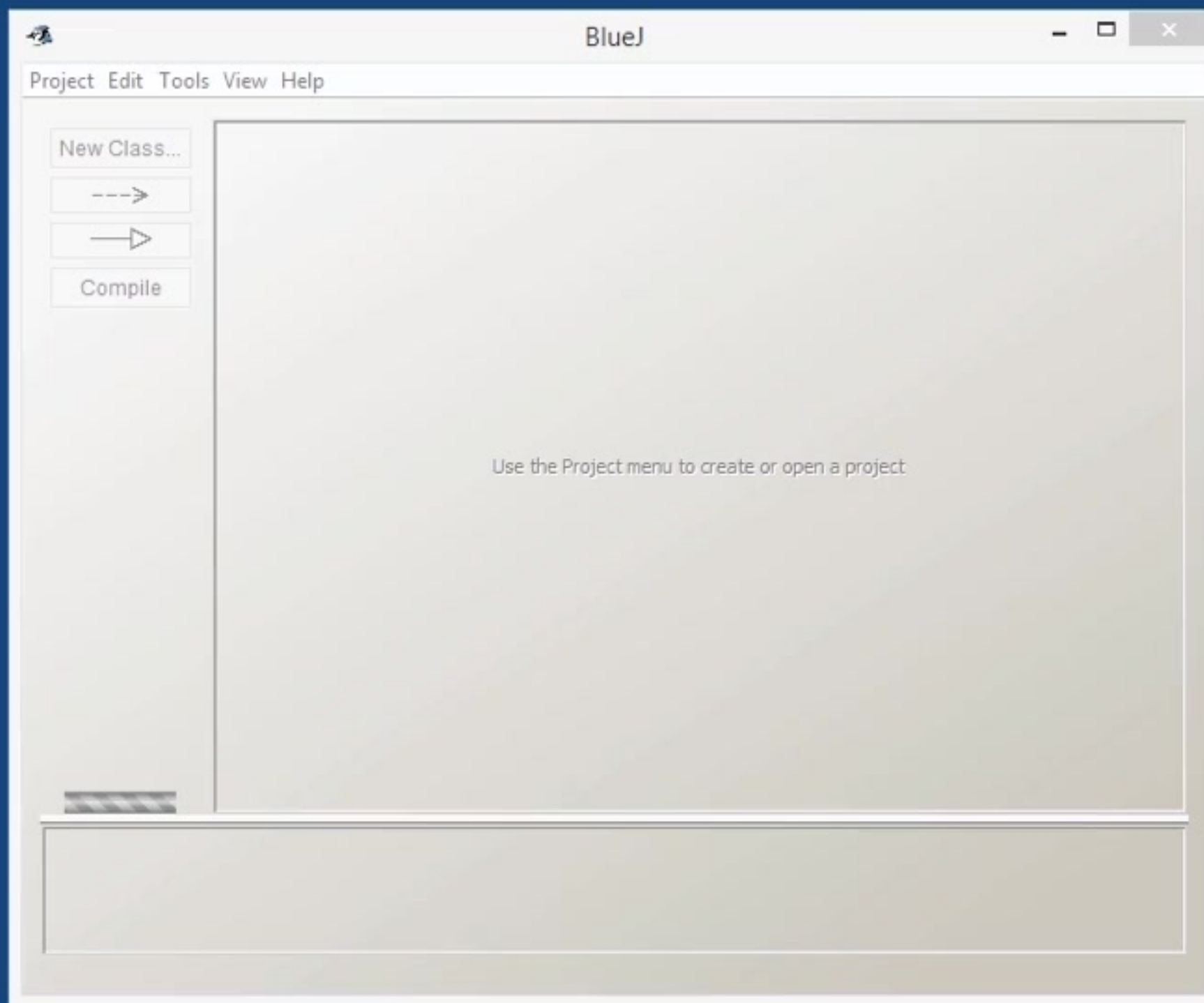




Recycle Bin



Exercise Files

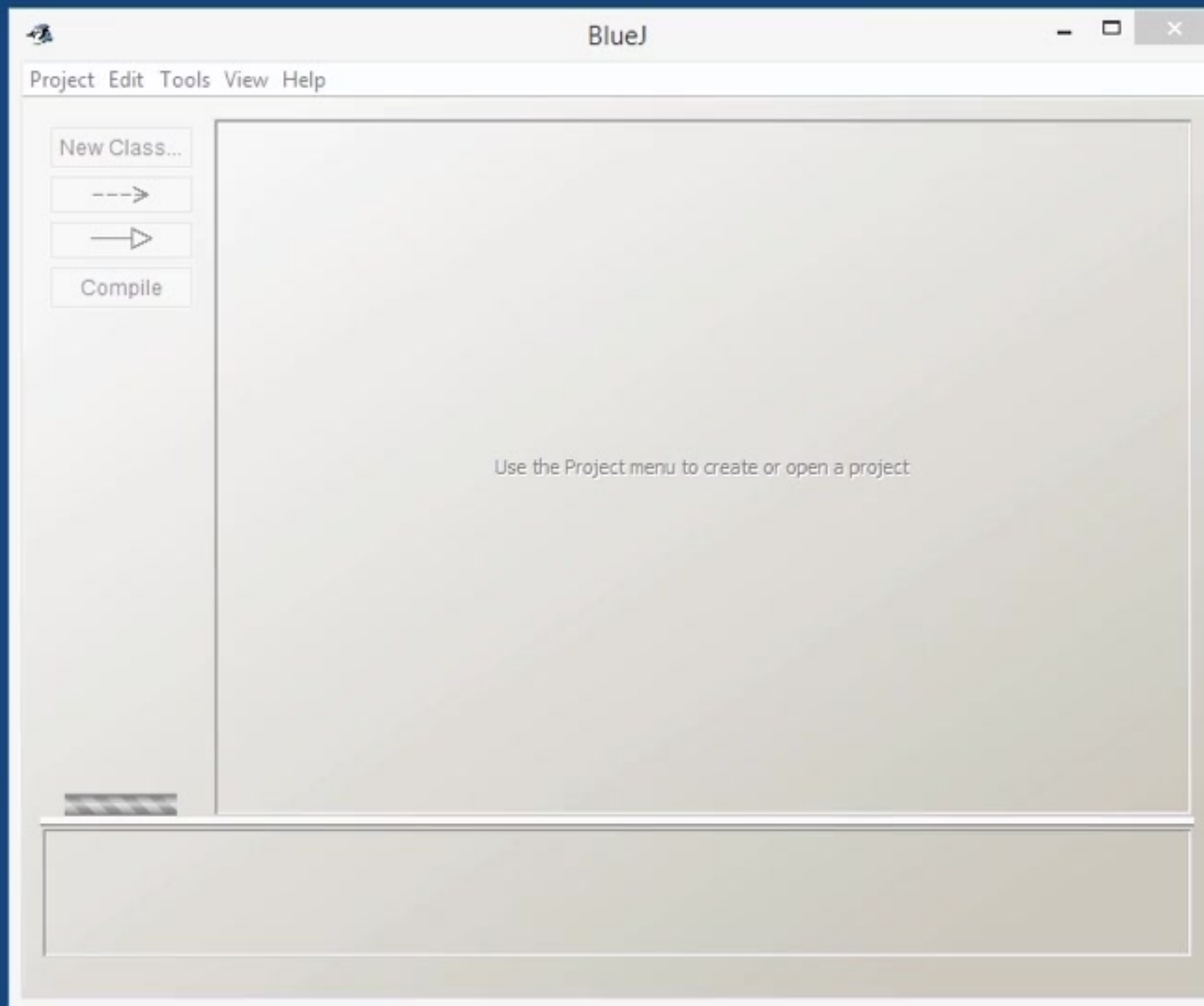




Recycle Bin



Exercise Files

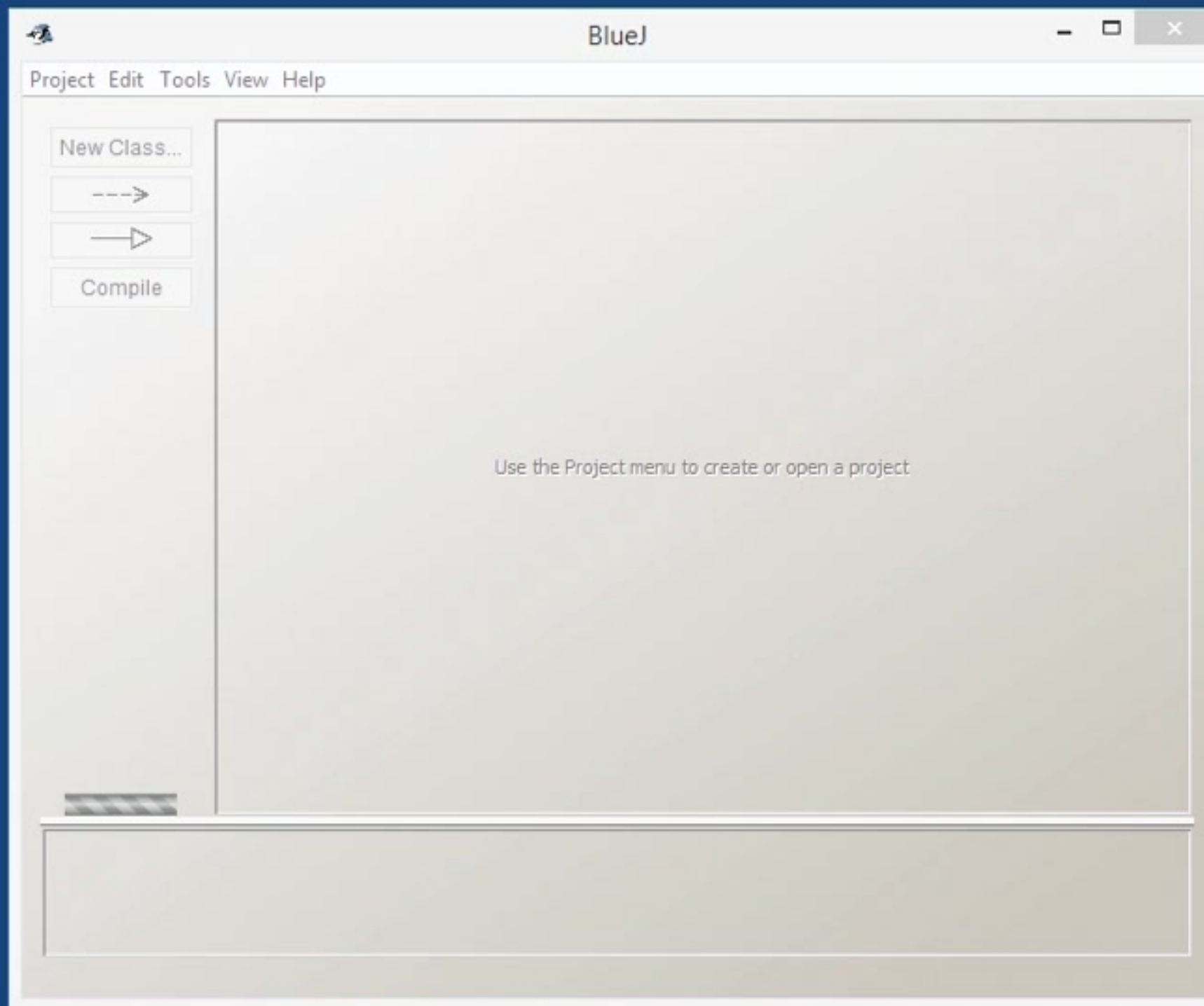




Recycle Bin



Exercise Files

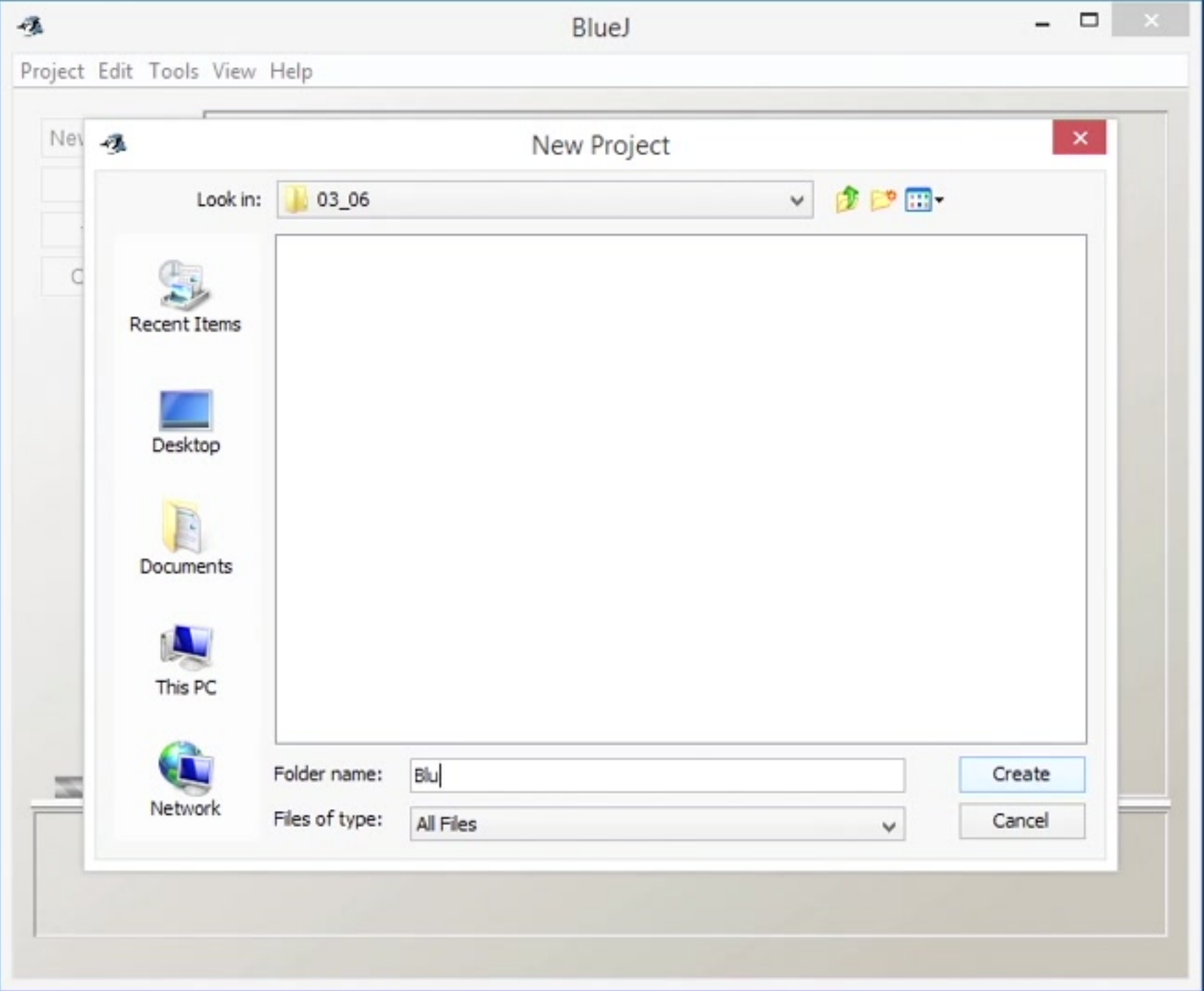


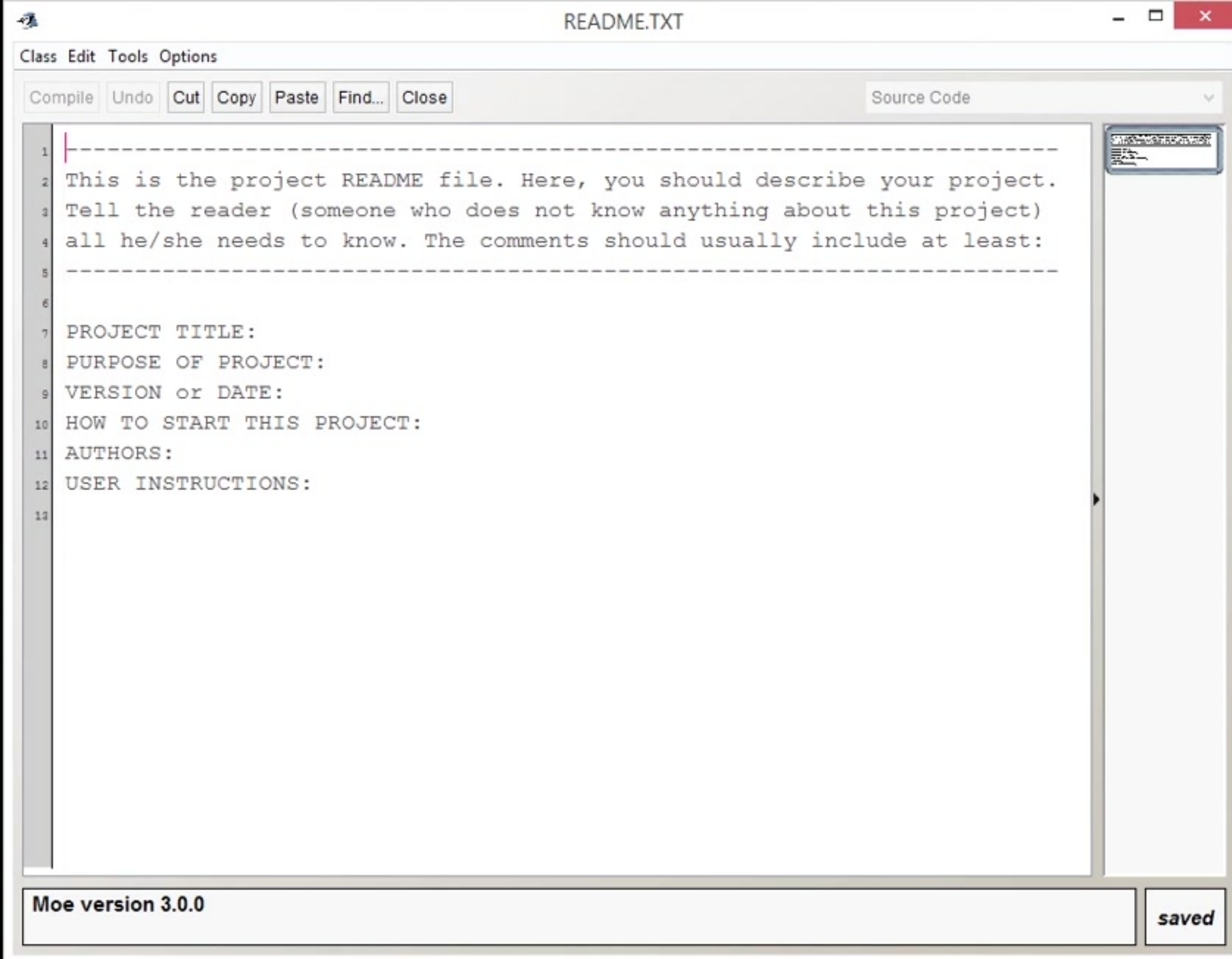


Recycle Bin

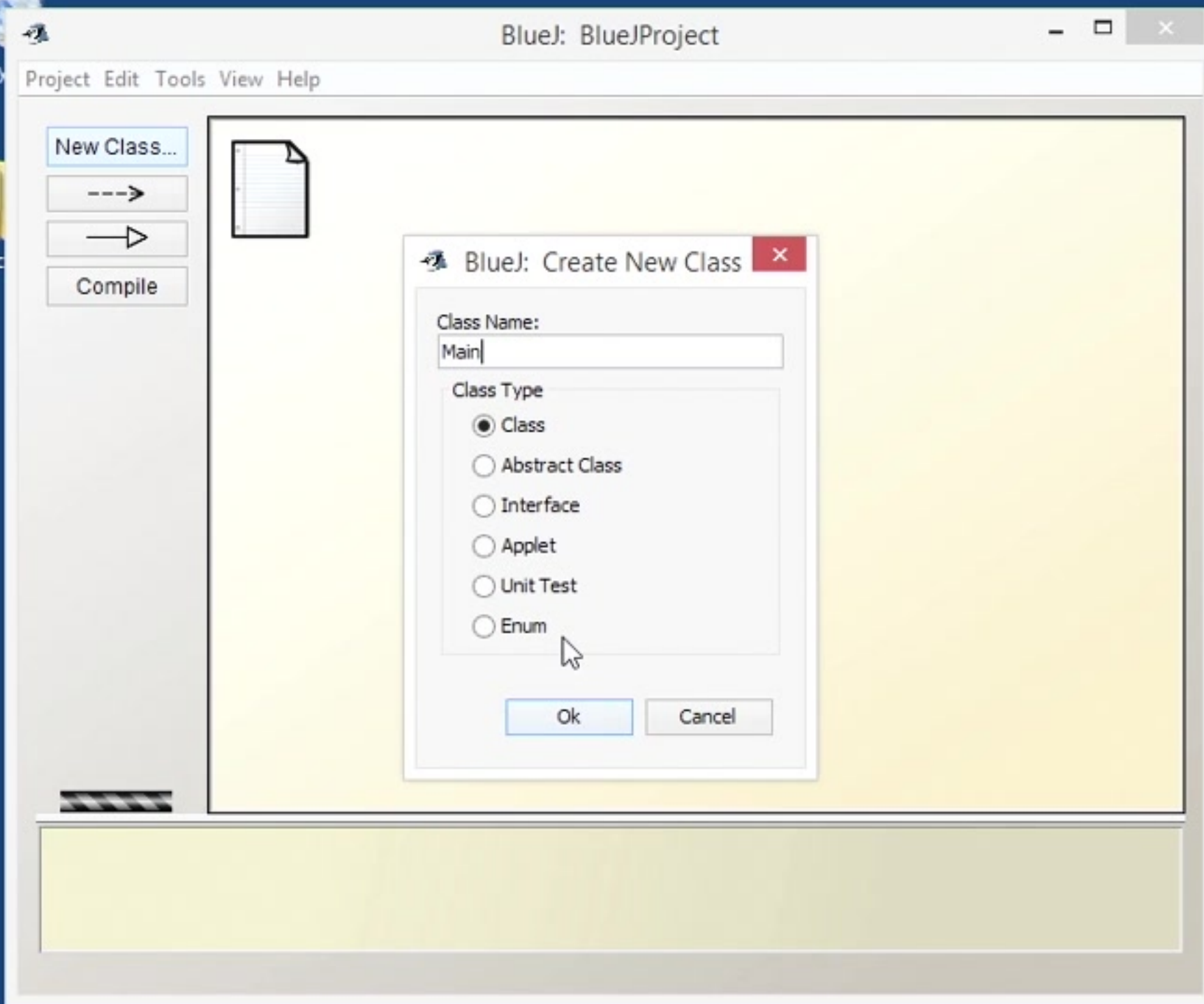


Exercise Files









```
1
2 /**
3  * Write a description of class Main here.
4  *
5  * @author (your name)
6  * @version (a version number or a date)
7  */
8 public class Main
9 {
10     // instance variables - replace the example below with your own
11     private int x;
12
13     /**
14     * Constructor for objects of class Main
15     */
16     public Main()
17     {
18         // initialise instance variables
19         x = 0;
20     }
21
22     /**
23     * An example of a method - replace this comment with your own
24     *
25     * @param y    a sample parameter for a method
26     * @return     the sum of x and y
27     */
28     public int sampleMethod(int y)
```

```
1  /**
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1  /**
2  *
3  * Write a description of class Main here.
4  *
5  * @author (your name)
6  * @version (a version number or a date)
7  */
8  public class Main
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10     // instance variables - replace the example below with your own
11     private int x;
12     |
13     /**
14     * Constructor for objects of class Main
15     */
16     public Main()
17     {
18         // initialise instance variables
19         x = 0;
20     }
21
22     /**
23     * An example of a method - replace this comment with your own
24     *
25     * @param y    a sample parameter for a method
26     * @return     the sum of x and y
27     */
28     public int sampleMethod(int y)
```



```
7  */
8  public class Main
9  {
10     // instance variables - replace the example below with your own
11     private int x;
12
13     /**
14      * Constructor for objects of class Main
15      */
16     public Main()
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18         // initialise instance variables
19         x = 0;
20     }
21
22     /**
23      * An example of a method - replace this comment with your own
24      *
25      * @param y    a sample parameter for a method
26      * @return     the sum of x and y
27      */
28     public int sampleMethod(int y)
29     {
30         // put your code here
31         return x + y;
32     }
33 }
```



```
9 {
10 // instance variables - replace the example below with your own
11 private int x;
12
13 /**
14  * Constructor for objects of class Main
15  */
16 public Main()
17 {
18     // initialise instance variables
19     x = 0;
20 }
21
22 /**
23  * An example of a method - replace this comment with your own
24  *
25  * @param y    a sample parameter for a method
26  * @return     the sum of x and y
27  */
28 public int sampleMethod(int y)
29 {
30     // put your code here
31     return x + y;
32 }
33
34 public st
35 }
36
```

```
// instance variables - replace the example below with your own
```

```
private int x;
```

```
/**
```

```
 * Constructor for objects of class Main
```

```
 */
```

```
public Main()
```

```
{
```

```
    // initialise instance variables
```

```
    x = 0;
```

```
}
```

```
/**
```

```
 * An example of a method - replace this comment with your own
```

```
 *
```

```
 * @param y    a sample parameter for a method
```

```
 * @return     the sum of x and y
```

```
 */
```

```
public int sampleMethod(int y)
```

```
{
```

```
    // put your code here
```

```
    return x + y;
```

```
}
```

```
public static void main(String[] args) {
```

```
    System.out.println
```

```
}
```

```
private int x;
```

```
/**
 * Constructor for objects of class Main
 */
```

```
public Main()
```

```
{
    // initialise instance variables
    x = 0;
}
```

```
/**
 * An example of a method - replace this comment with your own
 *
 * @param y    a sample parameter for a method
 * @return     the sum of x and y
 */
```

```
public int sampleMethod(int y)
```

```
{
    // put your code here
    return x + y;
}
```

```
public static void main(String[] args) {
    System.out.println("Hello from BlueJ!");
}
```

```
}
```



```
private int x;
```

```
/**
 * Constructor for objects of class Main
 */
```

```
public Main()
```

```
{
    // initialise instance variables
    x = 0;
}
```

```
/**
 * An example of a method - replace this comment with your own
 *
 * @param y    a sample parameter for a method
 * @return     the sum of x and y
 */
```

```
public int sampleMethod(int y)
```

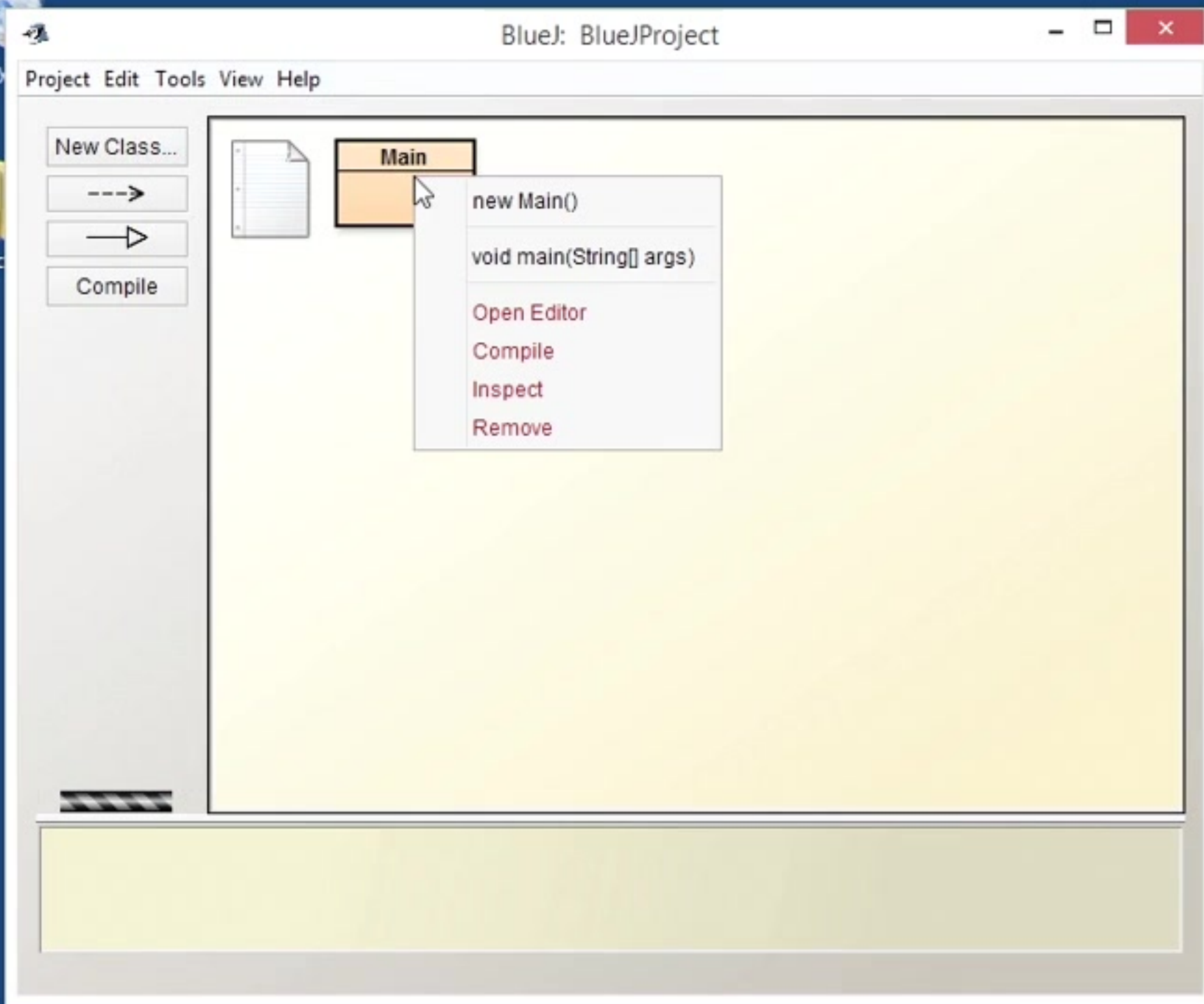
```
{
    // put your code here
    return x + y;
}
```

```
public static void main(String[] args) {
```

```
    System.out.println("Hello from BlueJ!");
```

```
}
```

```
}
```



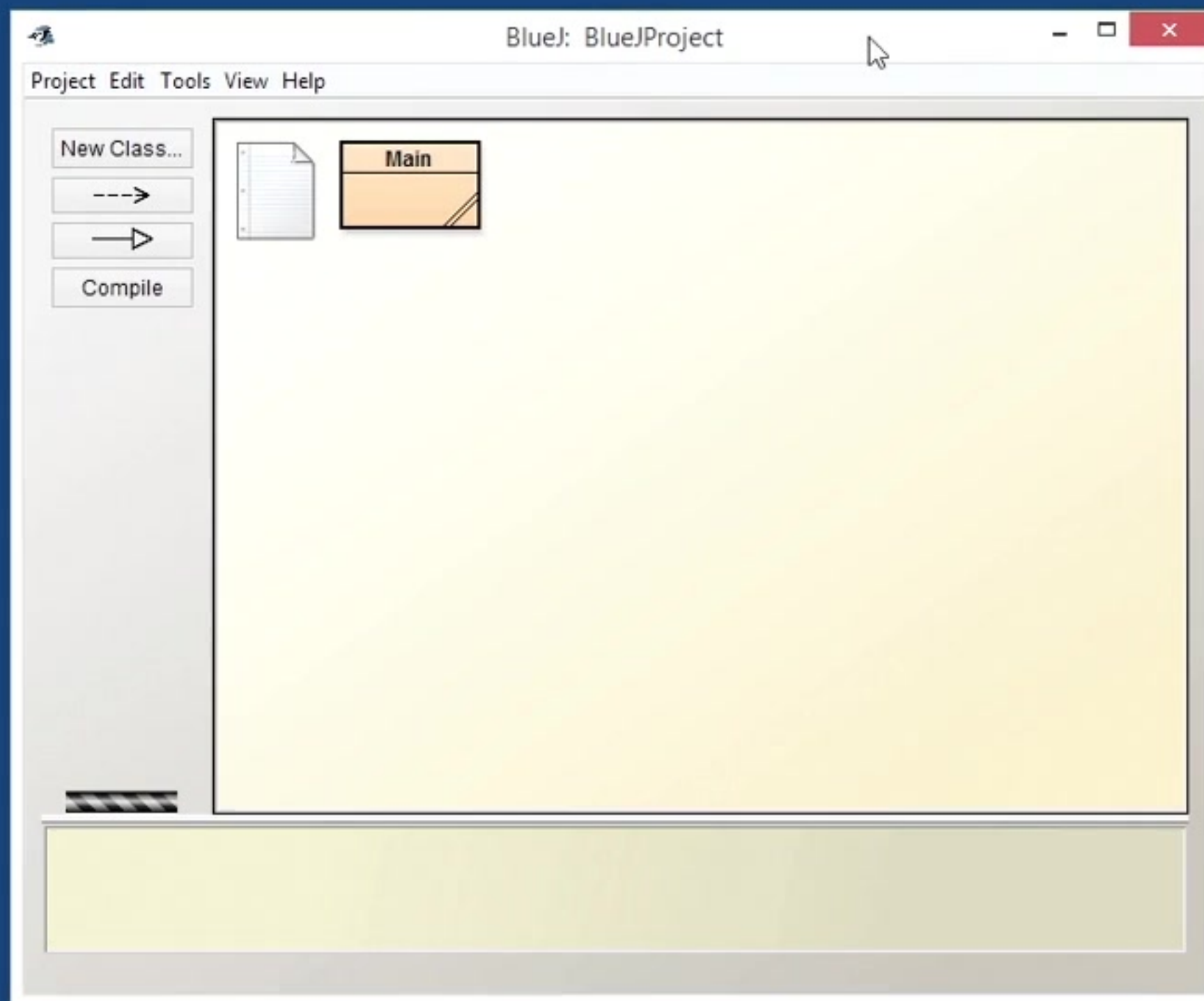




Recycle Bin



Exercise Files



BlueJ: BlueJProject

Project Edit Tools View Help

New Class...  
--->  
->  
Compile

BlueJProject

File Home Share View

Exercise Files > Ch03 > 03\_06 > BlueJProject

Search BlueJProject

Name	Date modified	Type	Size
Main.class	6/3/2015 11:07 AM	CLASS File	1 KB
Main.ctxt	6/3/2015 11:07 AM	CTXT File	1 KB
Main	6/3/2015 11:07 AM	JAVA File	1 KB
package	6/3/2015 11:04 AM	BlueJ Project File	1 KB
README	6/3/2015 11:04 AM	TXT File	1 KB

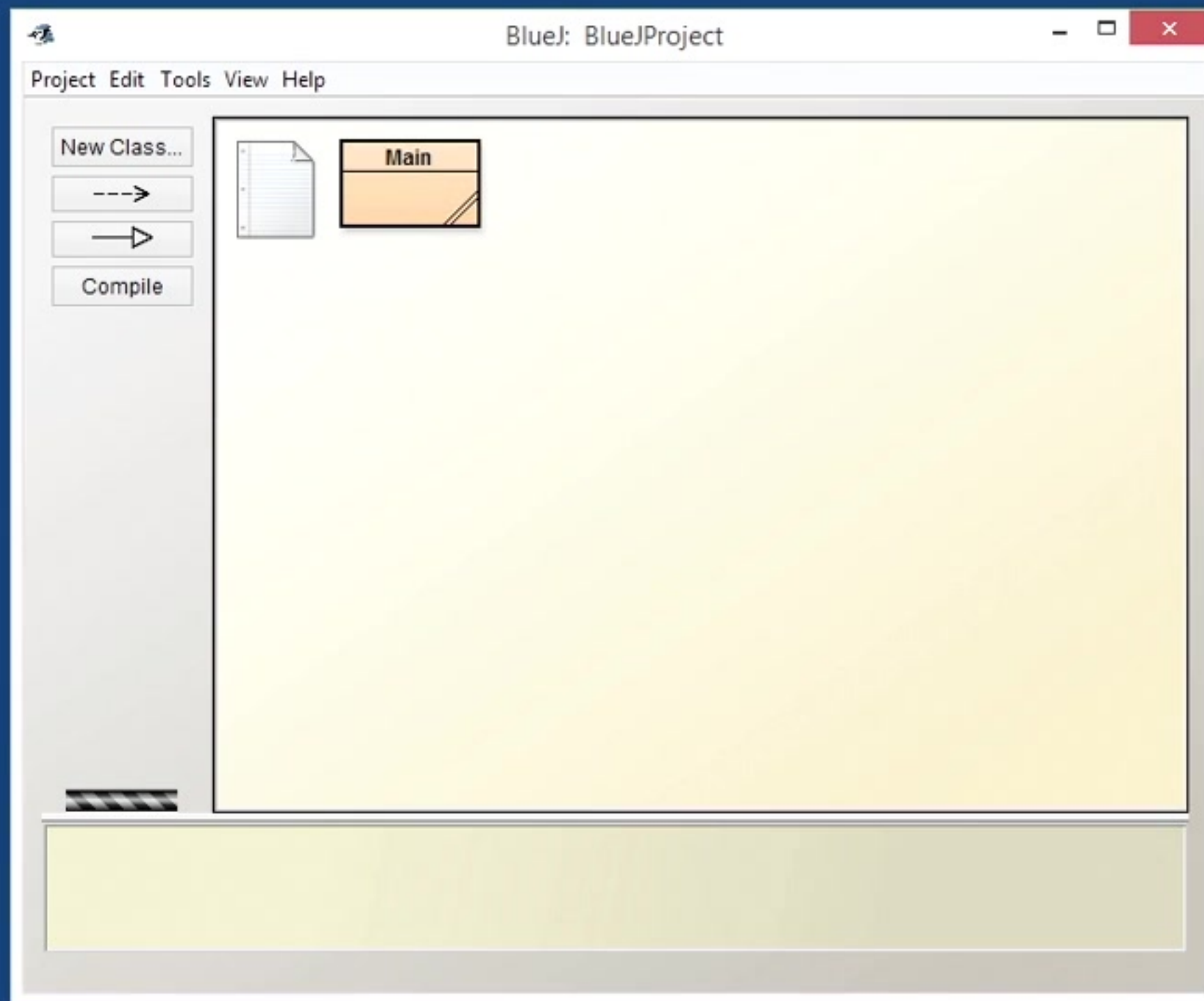
5 items 1 item selected 483 bytes



Recycle Bin



Exercise Files





Recycle Bin



Exercise Files

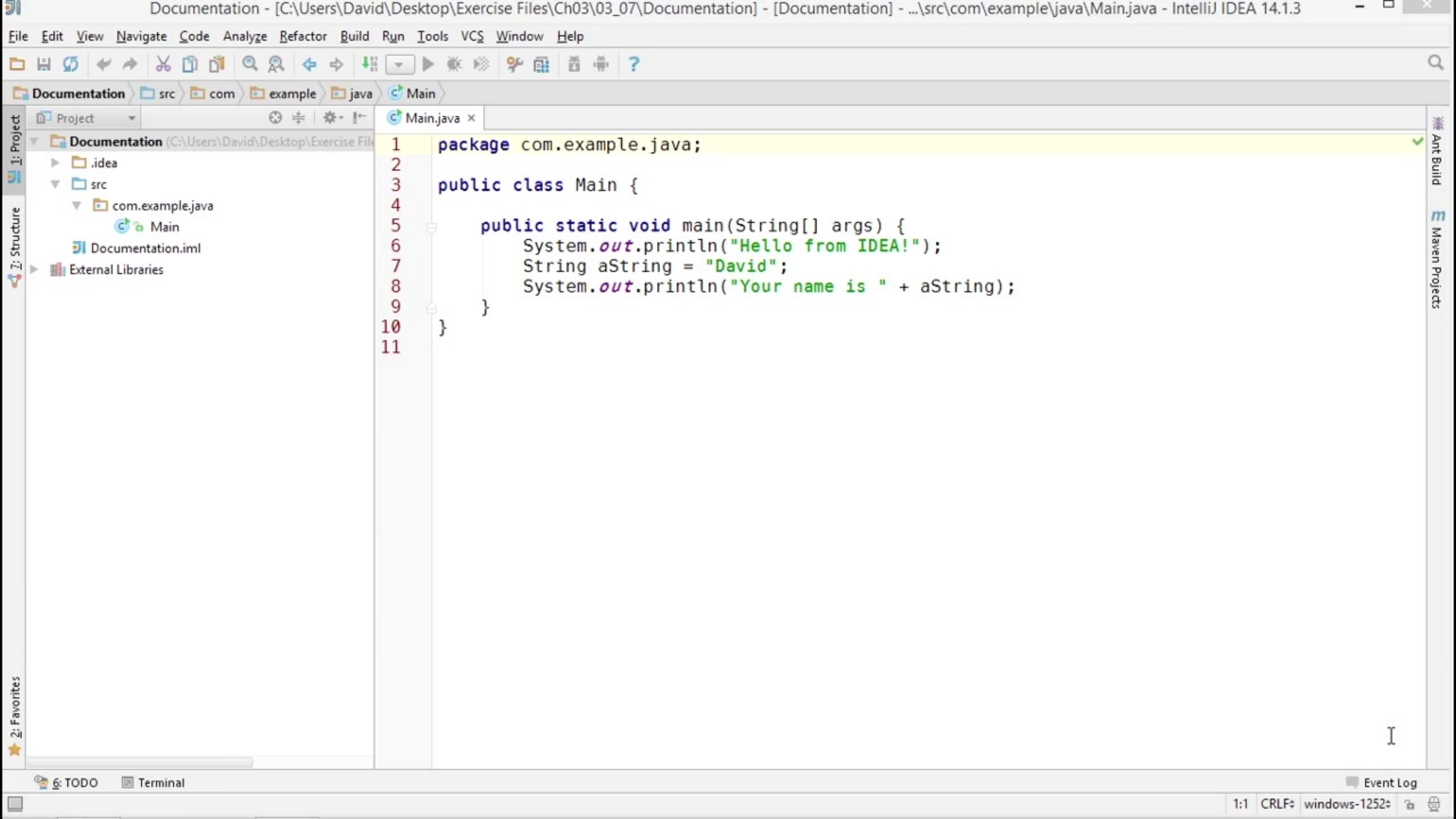
BlueJ: BlueJProject

Project Edit Tools View Help

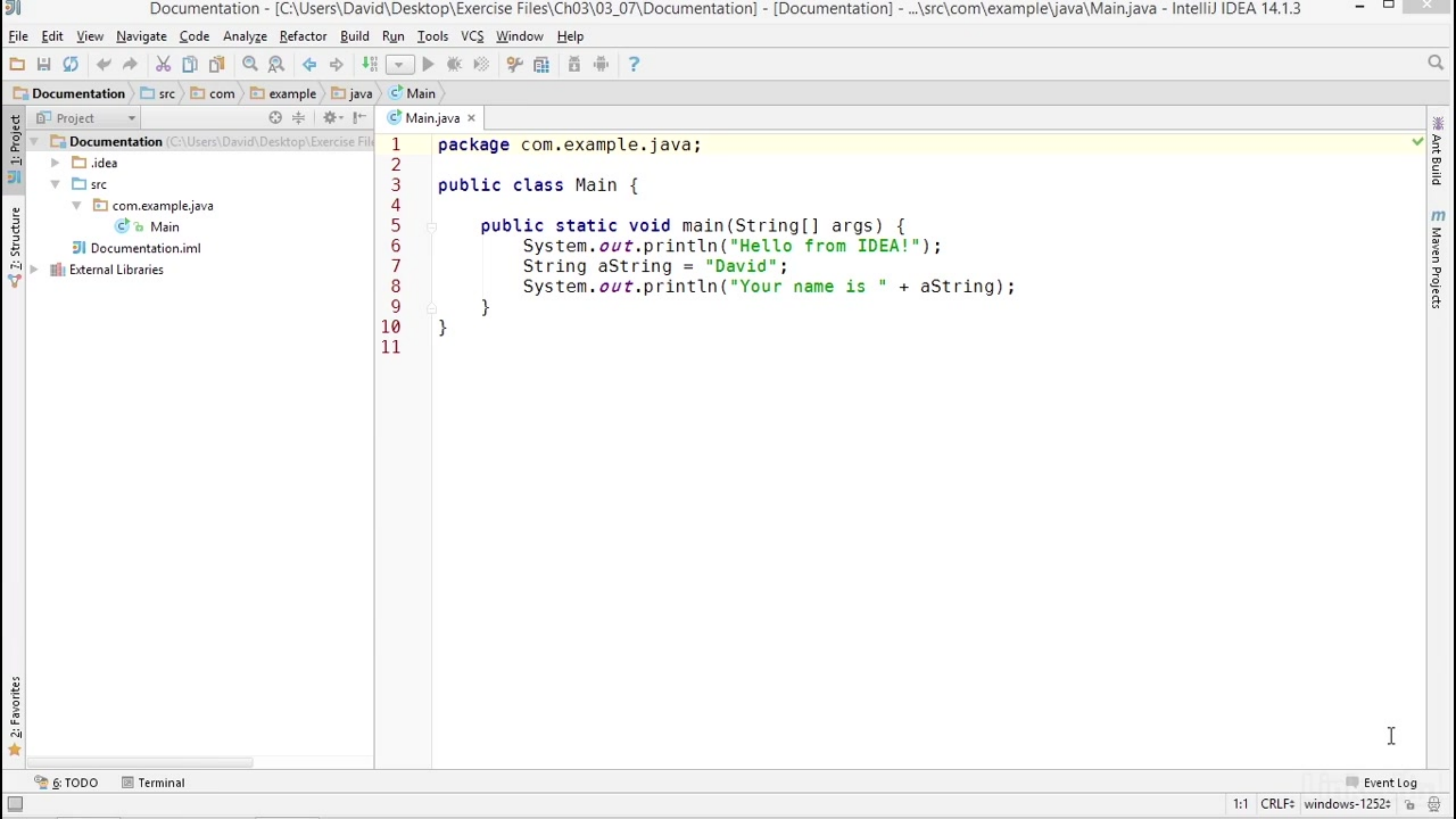
New Class...  
-->  
->  
Compile

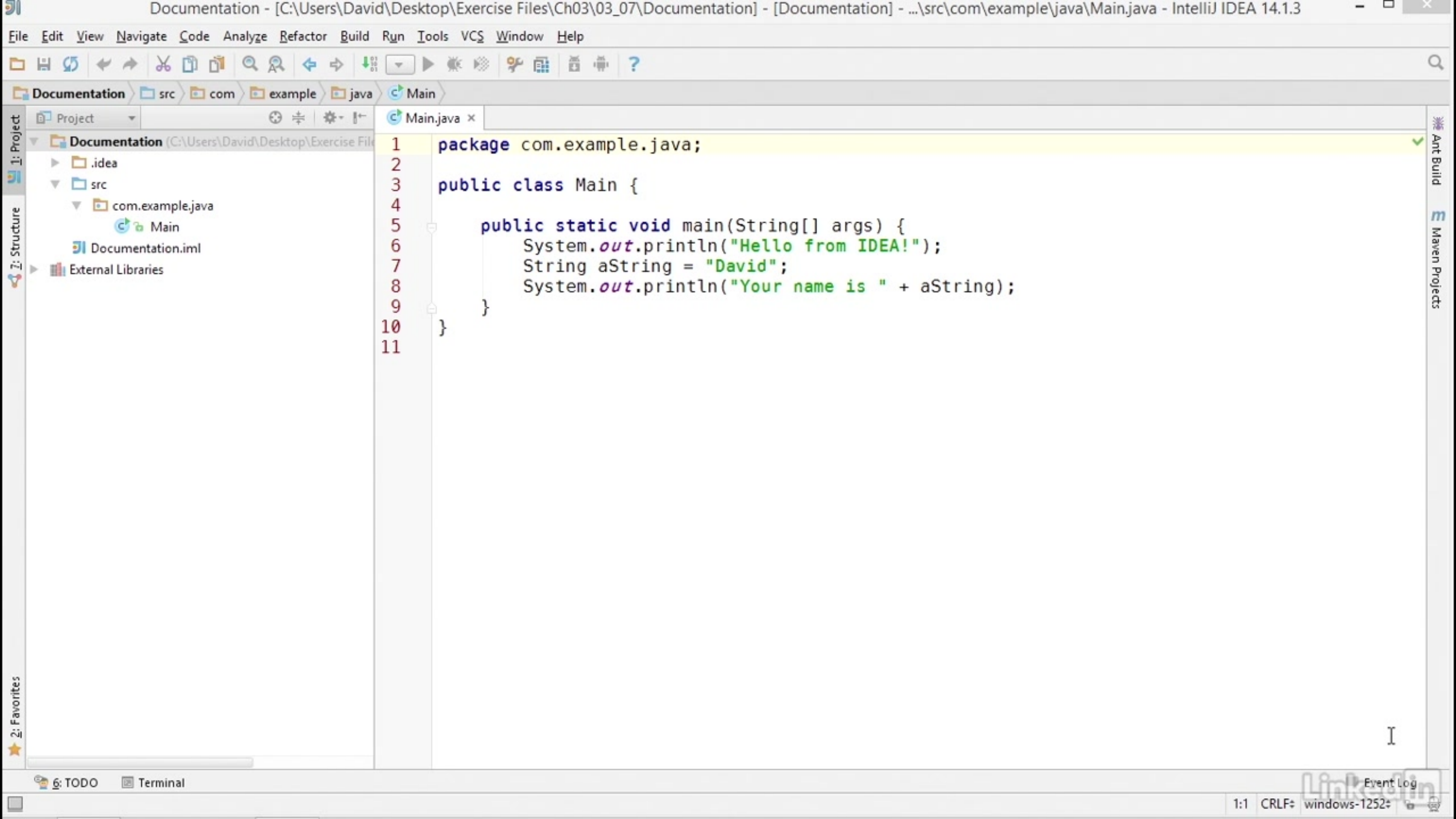
Main

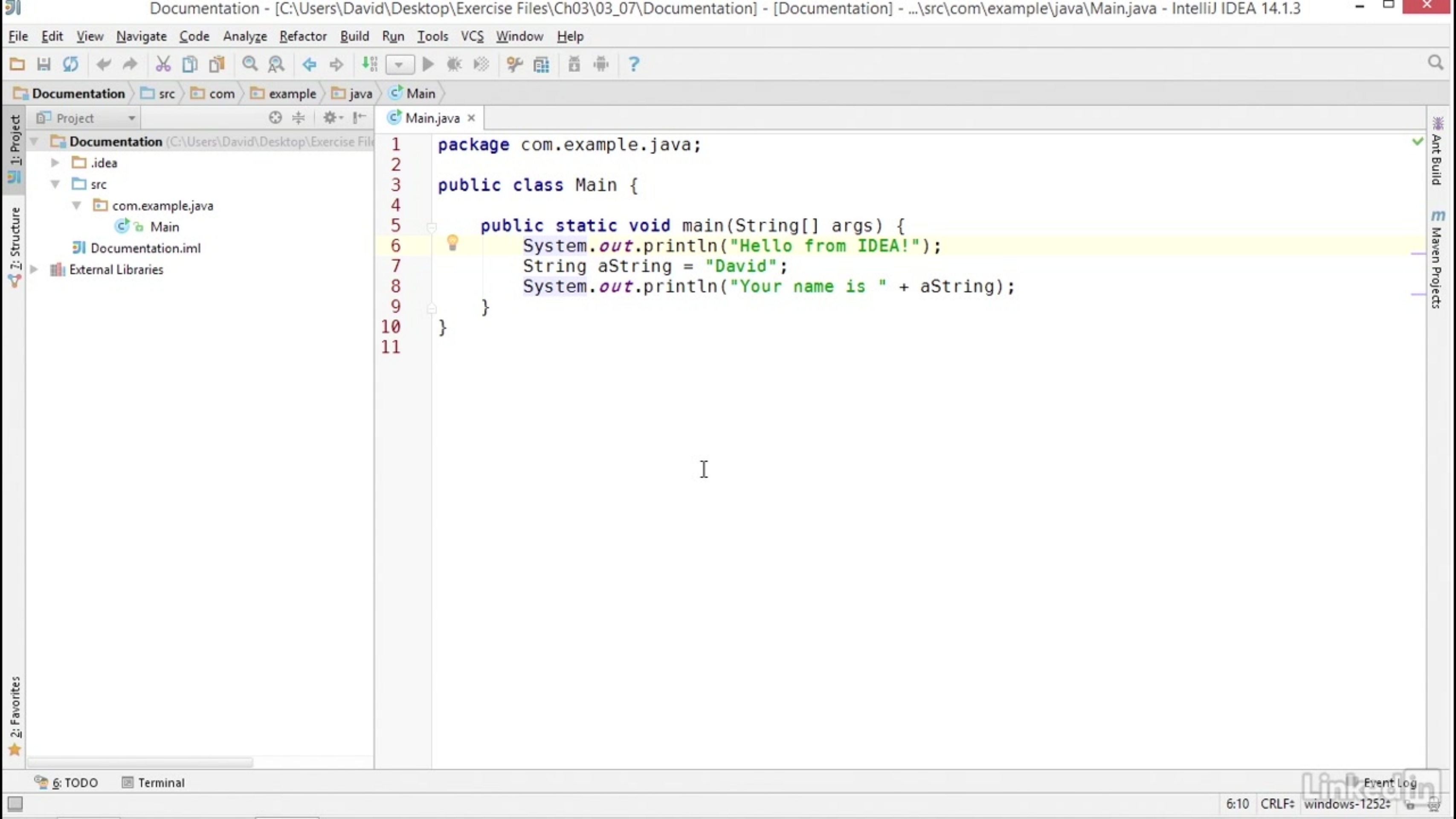
LinkedIn



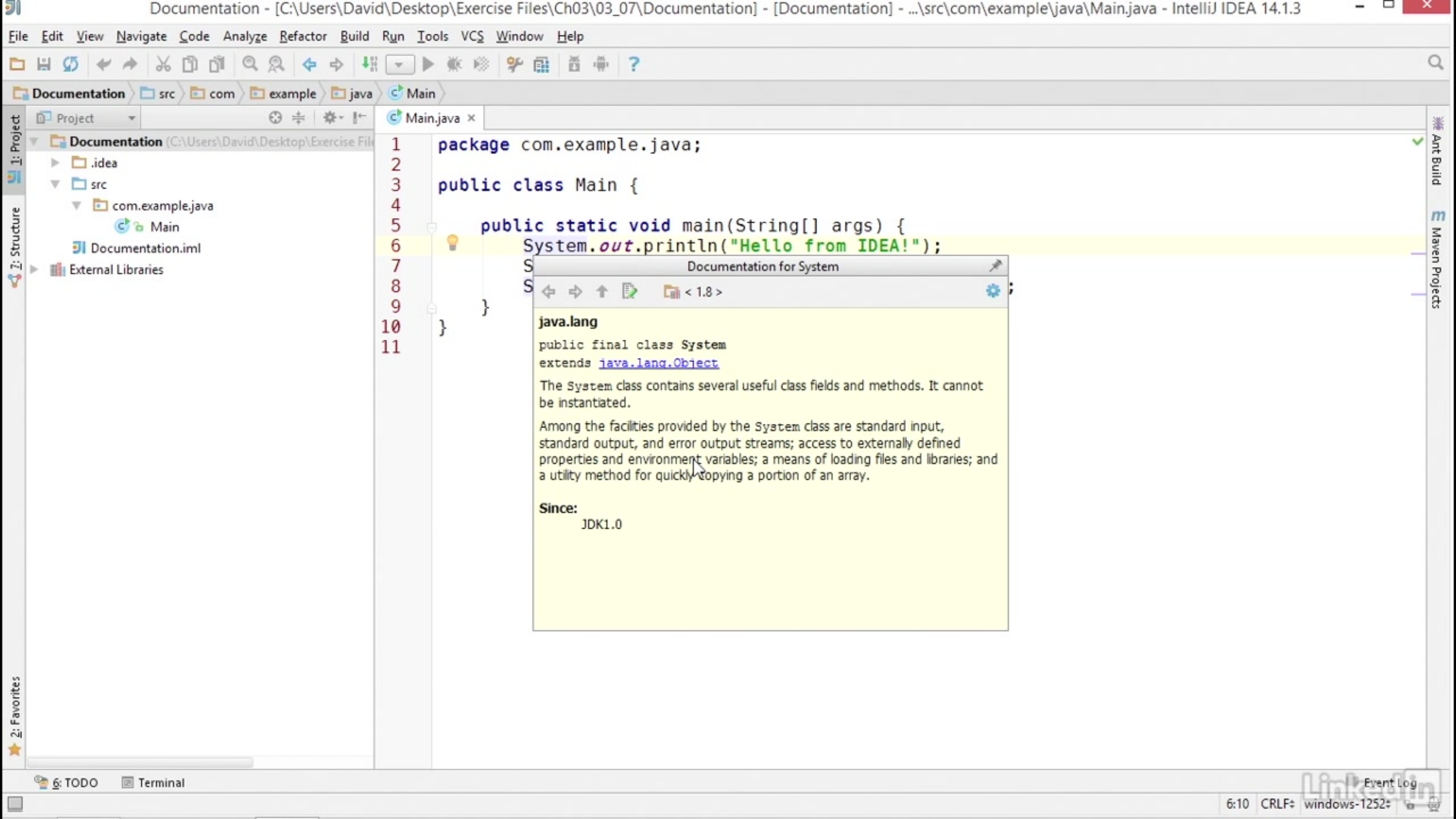


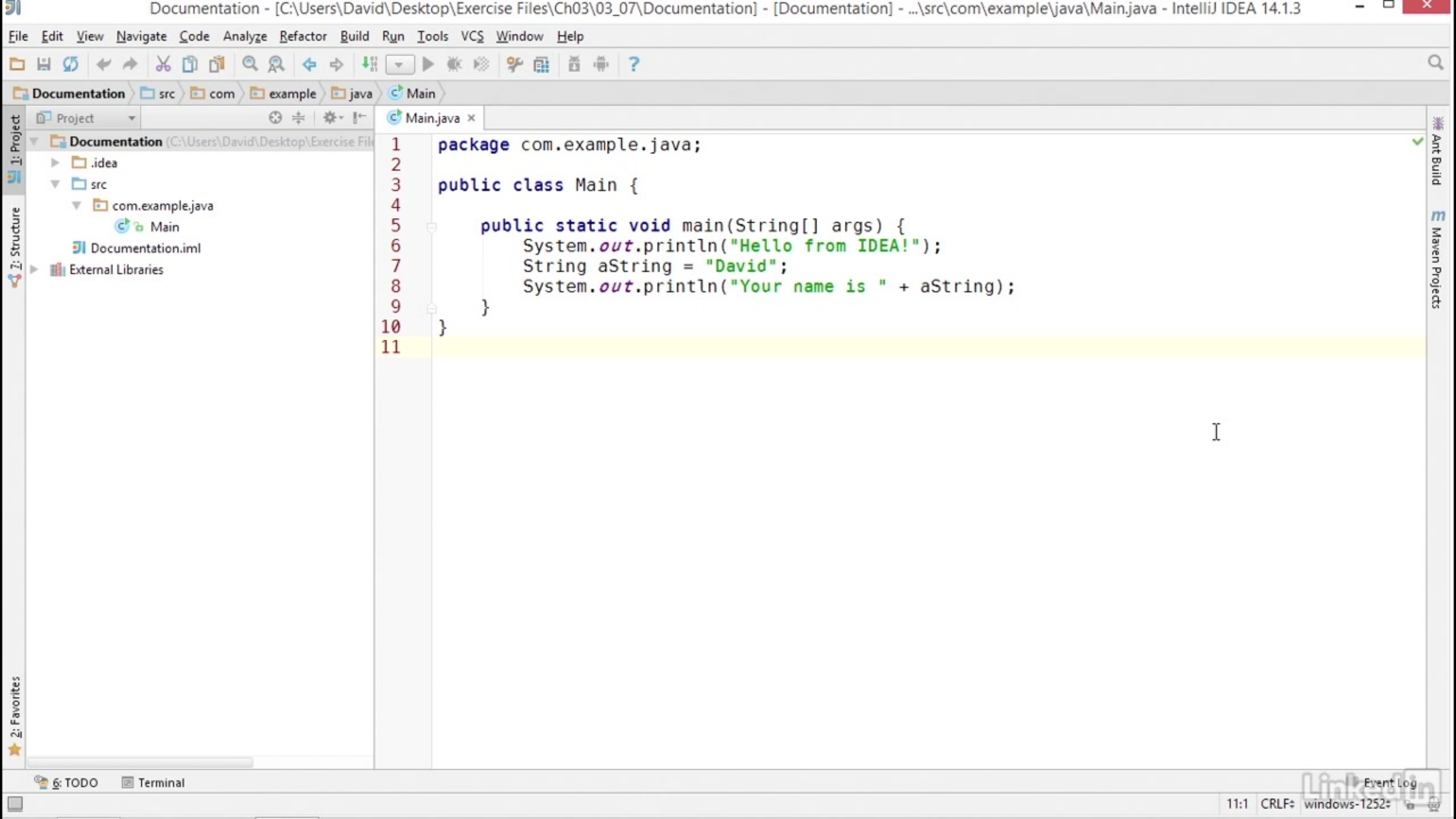
















Java Platform Standard Ed x

docs.oracle.com/javase/8/docs/

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Troubleshooting Guide

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Resources

Oracle Java SE Advanced and Oracle

The following conceptual diagram illustrates the components of Oracle's Java SE products:

Description of Java Conceptual Diagram

JDK

JRE

Java Virtual Machine

Java Language	Java Language						
	java	javac	javadoc	jar	javap	jdeps	Scripting
Tools & Tool APIs	Security	Monitoring	JConsole	VisualVM	JMC	JFR	
	JPDA	JVM TI	IDL	RMI	Java DB	Deployment	
	Internationalization		Web Services		Troubleshooting		
Deployment	Java Web Start			Applet / Java Plug-in			
	JavaFX						
User Interface Toolkits	Swing		Java 2D		AWT		Accessibility
	Drag and Drop		Input Methods		Image I/O		Print Service
Integration Libraries	IDL		JDBC		JNDI		Scripting
	Beans		Security		Serialization		Extension Mechanism
Other Base Libraries	JMX		XML JAXP		Networking		Override Mechanism
	JNI		Date and Time		Input/Output		Internationalization
	lang and util						
lang and util Base Libraries	Math		Collections		Ref Objects		Regular Expressions
	Logging		Management		Instrumentation		Concurrency Utilities
	Reflection		Versioning		Preferences API		JAR
Java Virtual Machine	Java HotSpot Client and Server VM						

Compact Profiles

Java SE API

docs.oracle.com/javase/8/docs/technotes/tools/index.html#webservices

LinkedIn



- Web Tier
- Java Card
- Java TV
- New to Java
- Community
- Java Magazine

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Java Platform (JDK) 8u45

DOWNLOAD

NetBeans with JDK 8



### Java Platform, Standard Edition

#### Java SE 8u45

This release includes important security fixes. Oracle strongly recommends that all Java SE 8 users upgrade to this release  
[Learn more](#)

- Installation Instructions
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- Third Party Licenses
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- Readme Files
  - JDK ReadMe
  - JRE ReadMe

#### JDK

DOWNLOAD

#### Server JRE

DOWNLOAD

#### JRE

DOWNLOAD

#### Which Java package do I need?

- Software Developers: JDK** (Java SE Development Kit). For Java Developers. Includes a complete JRE plus tools for developing, debugging, and monitoring Java applications.
- Administrators running applications on a server: Server JRE** (Server Java Runtime Environment) For deploying Java applications on servers. Includes tools for JVM monitoring and tools commonly required for server applications, but does not include browser integration (the Java plug-in), auto-update, nor an installer. [Learn more](#)
- End user running Java on a desktop: JRE:** (Java Runtime Environment). Covers most end-users needs. Contains everything required to run Java applications on your system.

#### Java SE 7u79/80

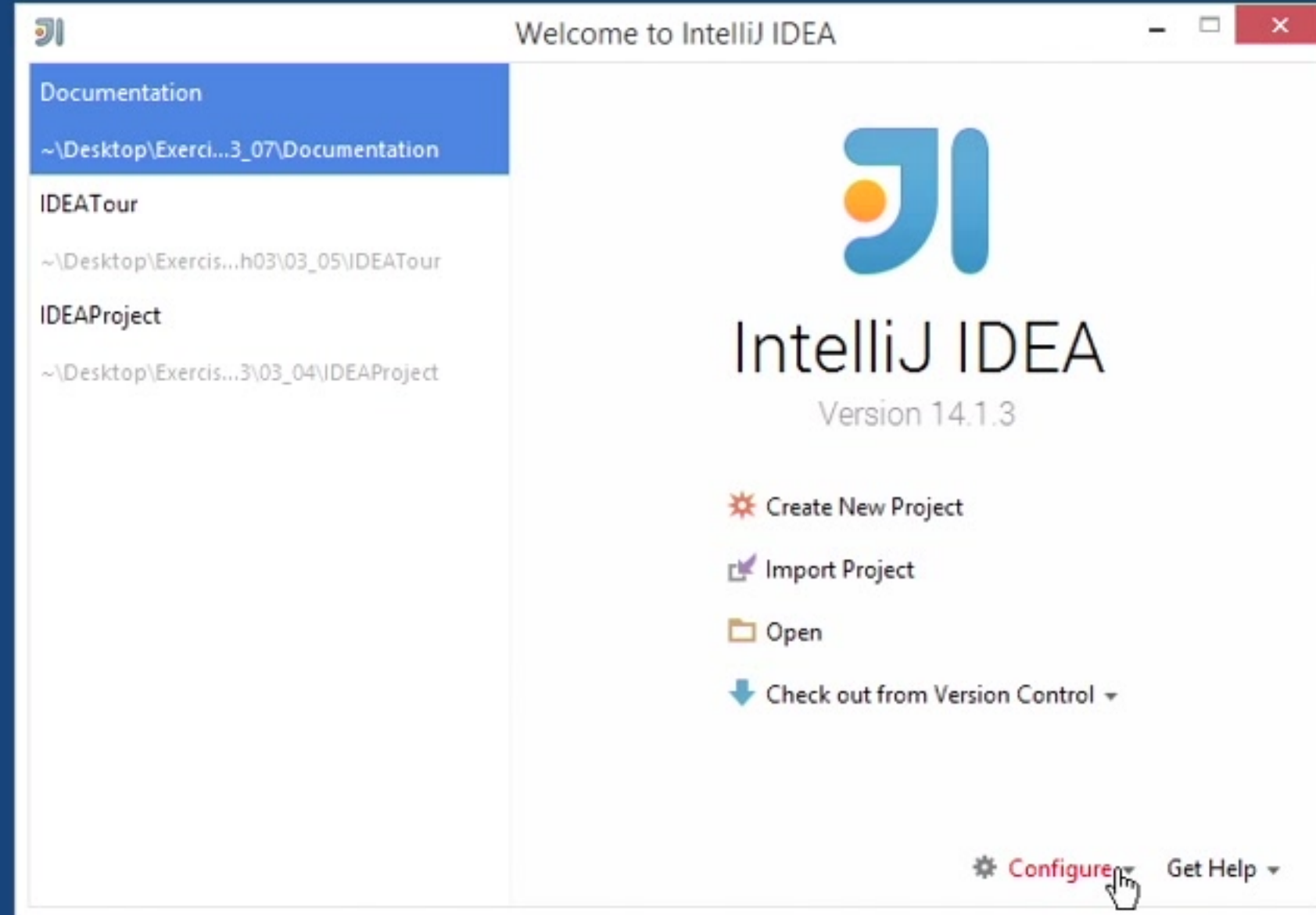
[Auto-update Notice & End of Public Updates for Oracle JDK 7](#)



Recycle Bin



Exercise Files





Recycle Bin



Exercise Files



## Project Settings

Project

Libraries

## Platform Settings

SDKs

Global Libraries

Problems



1.8

## Default Project Structure



Name: 1.8

JDK home path: C:\Program Files\Java\jdk1.8.0\_45

Classpath Sourcepath Annotations Documentation Paths

C:\Program Files\Java\jdk1.8.0\_45\jre\lib\charsets.jar  
C:\Program Files\Java\jdk1.8.0\_45\jre\lib\deploy.jar  
C:\Program Files\Java\jdk1.8.0\_45\jre\lib\javaws.jar  
C:\Program Files\Java\jdk1.8.0\_45\jre\lib\jce.jar  
C:\Program Files\Java\jdk1.8.0\_45\jre\lib\jfr.jar  
C:\Program Files\Java\jdk1.8.0\_45\jre\lib\jfxswt.jar  
C:\Program Files\Java\jdk1.8.0\_45\jre\lib\jsse.jar  
C:\Program Files\Java\jdk1.8.0\_45\jre\lib\management-agent.jar  
C:\Program Files\Java\jdk1.8.0\_45\jre\lib\plugin.jar  
C:\Program Files\Java\jdk1.8.0\_45\jre\lib\resources.jar  
C:\Program Files\Java\jdk1.8.0\_45\jre\lib\rt.jar  
C:\Program Files\Java\jdk1.8.0\_45\jre\lib\ext\access-bridge-64.jar  
C:\Program Files\Java\jdk1.8.0\_45\jre\lib\ext\cldrdata.jar  
C:\Program Files\Java\jdk1.8.0\_45\jre\lib\ext\dnsns.jar  
C:\Program Files\Java\jdk1.8.0\_45\jre\lib\ext\jaccess.jar  
C:\Program Files\Java\jdk1.8.0\_45\jre\lib\ext\jfxrt.jar  
C:\Program Files\Java\jdk1.8.0\_45\jre\lib\ext\localedata.jar  
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C:\Program Files\Java\jdk1.8.0\_45\jre\lib\ext\sunec.jar  
C:\Program Files\Java\jdk1.8.0\_45\jre\lib\ext\sunjce\_provider.jar  
C:\Program Files\Java\jdk1.8.0\_45\jre\lib\ext\sunmscapi.jar  
C:\Program Files\Java\jdk1.8.0\_45\jre\lib\ext\sunpkcs11.jar  
C:\Program Files\Java\jdk1.8.0\_45\jre\lib\ext\zipfs.jar

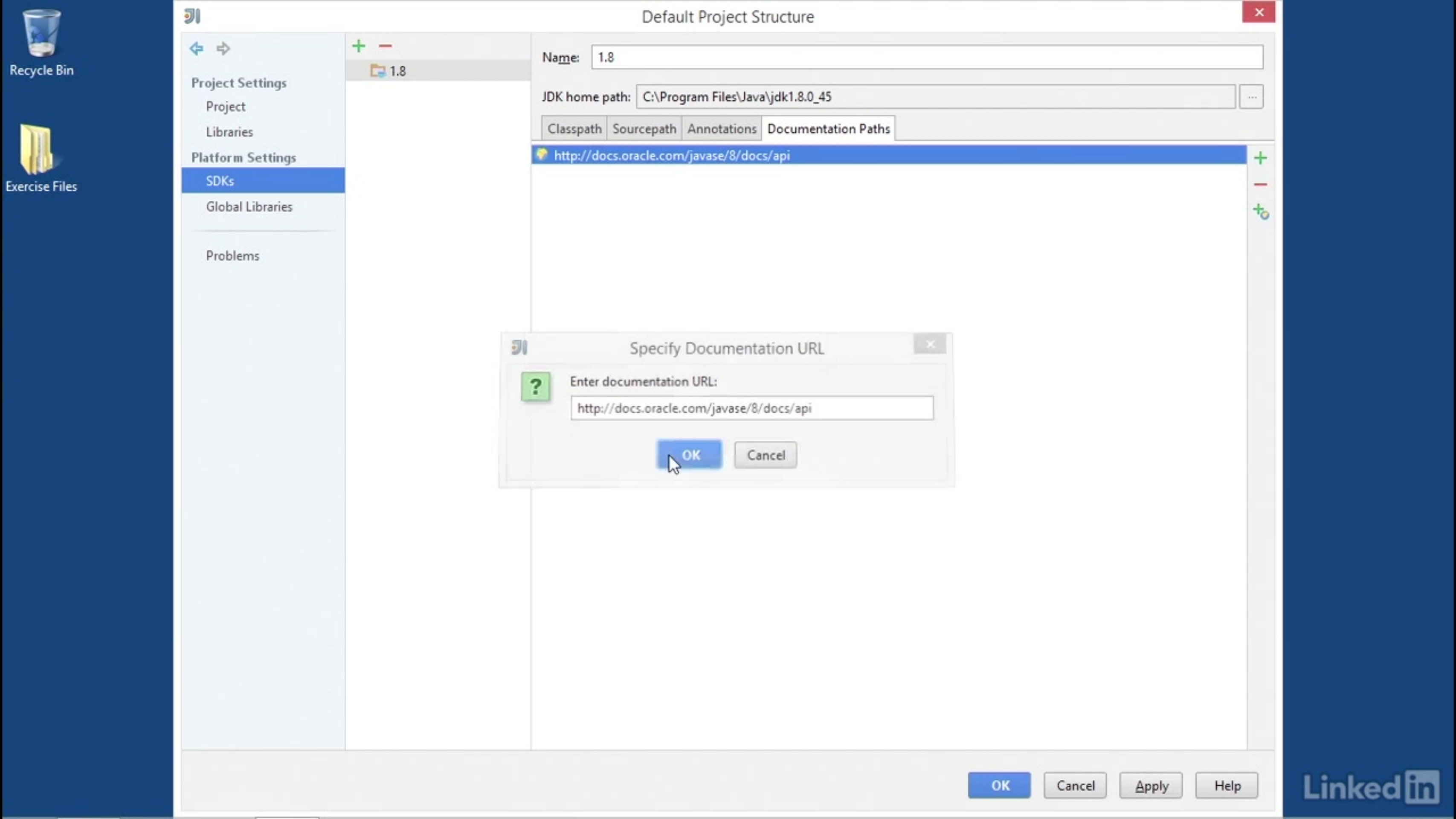
OK

Cancel

Apply

Help





## Default Project Structure

Name: 1.8

JDK home path: C:\Program Files\Java\jdk1.8.0\_45

Classpath Sourcepath Annotations Documentation Paths

http://docs.oracle.com/javase/8/docs/api

### Specify Documentation URL



Enter documentation URL:

http://docs.oracle.com/javase/8/docs/api

OK

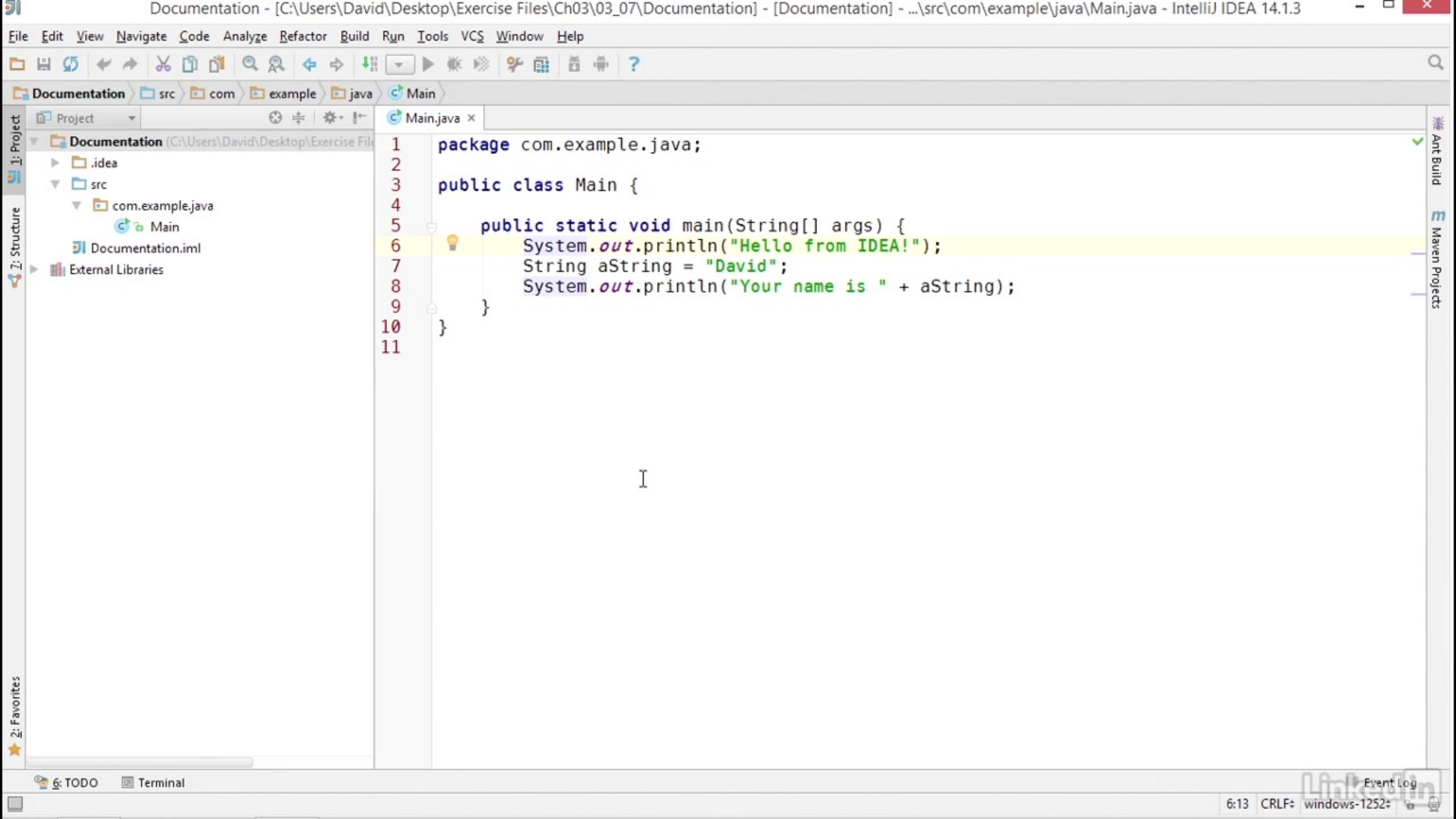
Cancel

OK

Cancel

Apply

Help



System (Java Platform SE | x

docs.oracle.com/javase/8/docs/api/java/lang/System.html#method.summary

Java Platform Stand... Java SE - Download... Other bookmarks

### Method Summary

All Methods

Static Methods

Concrete Methods

Deprecated Methods

Modifier and Type	Method and Description
static void	<b>arraycopy</b> (Object src, int srcPos, Object dest, int destPos, int length) Copies an array from the specified source array, beginning at the specified position, to the specified position of the destination array.
static String	<b>clearProperty</b> (String key) Removes the system property indicated by the specified key.
static Console	<b>console</b> () Returns the unique <b>Console</b> object associated with the current Java virtual machine, if any.
static long	<b>currentTimeMillis</b> () Returns the current time in milliseconds.
static void	<b>exit</b> (int status) Terminates the currently running Java Virtual Machine.
static void	<b>gc</b> () Runs the garbage collector.
static Map<String,String>	<b>getenv</b> () Returns an unmodifiable string map view of the current system environment.
static String	<b>getenv</b> (String name) Gets the value of the specified environment variable.
static Properties	<b>getProperties</b> () Determines the current system properties.
static String	<b>getProperty</b> (String key) Gets the system property indicated by the specified key.

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String (Java Platform SE 8 x

docs.oracle.com/javase/8/docs/api/java/lang/String.html

Java Platform Stand...Java SE - Download...Other bookmarks

OVERVIEWPACKAGECLASSUSE TREEDEPRECATEDINDEXHELP

PREV CLASSNEXT CLASSFRAMESNO FRAMESEALL CLASSES

SUMMARY: NESTED | FIELD | CONSTR | METHODDETAIL: FIELD | CONSTR | METHOD

compact1, compact2, compact3  
java.lang

Class String

java.lang.Object  
    java.lang.String

All Implemented Interfaces:  
Serializable, CharSequence, Comparable<String>

public final class String  
extends Object  
implements Serializable, Comparable<String>, CharSequence

The String class represents character strings. All string literals in Java programs, such as "abc", are implemented as instances of this class.

Strings are constant; their values cannot be changed after they are created. String buffers support mutable strings. Because String objects are immutable they can be shared. For example:

String str = "abc";

is equivalent to:

char data[] = {'a', 'b', 'c'};  
String str = new String(data);

Here are some more examples of how strings can be used:

System.out.println("abc");

Java™ Platform  
Standard Ed. 8

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# Primitive Data Types

# What is a primitive data type?

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- Numbers, characters, and booleans
- Stored in fastest available memory
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- Not a primitive: String!

# Declaring Primitive Variables

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short	Short
int	Integer
long	Long
float	Float

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```
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```

# Helper Class Example

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double doubleValue = 156.5d;  
Double doubleObj = new Double(doubleValue);  
byte byteValue = doubleObj.byteValue();
```



# Helper Class Example

- `java.lang.Double` supports double values.

```
double doubleValue = 156.5d;  
Double doubleObj = new Double(doubleValue);  
byte byteValue = doubleObj.byteValue();  
int intValue = doubleObj.intValue();  
float floatValue = doubleObj.floatValue();  
String stringValue = doubleObj.toString();
```

# Primitive Numeric Defaults

- Primitive numeric variables default to 0.

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int myInt;
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```
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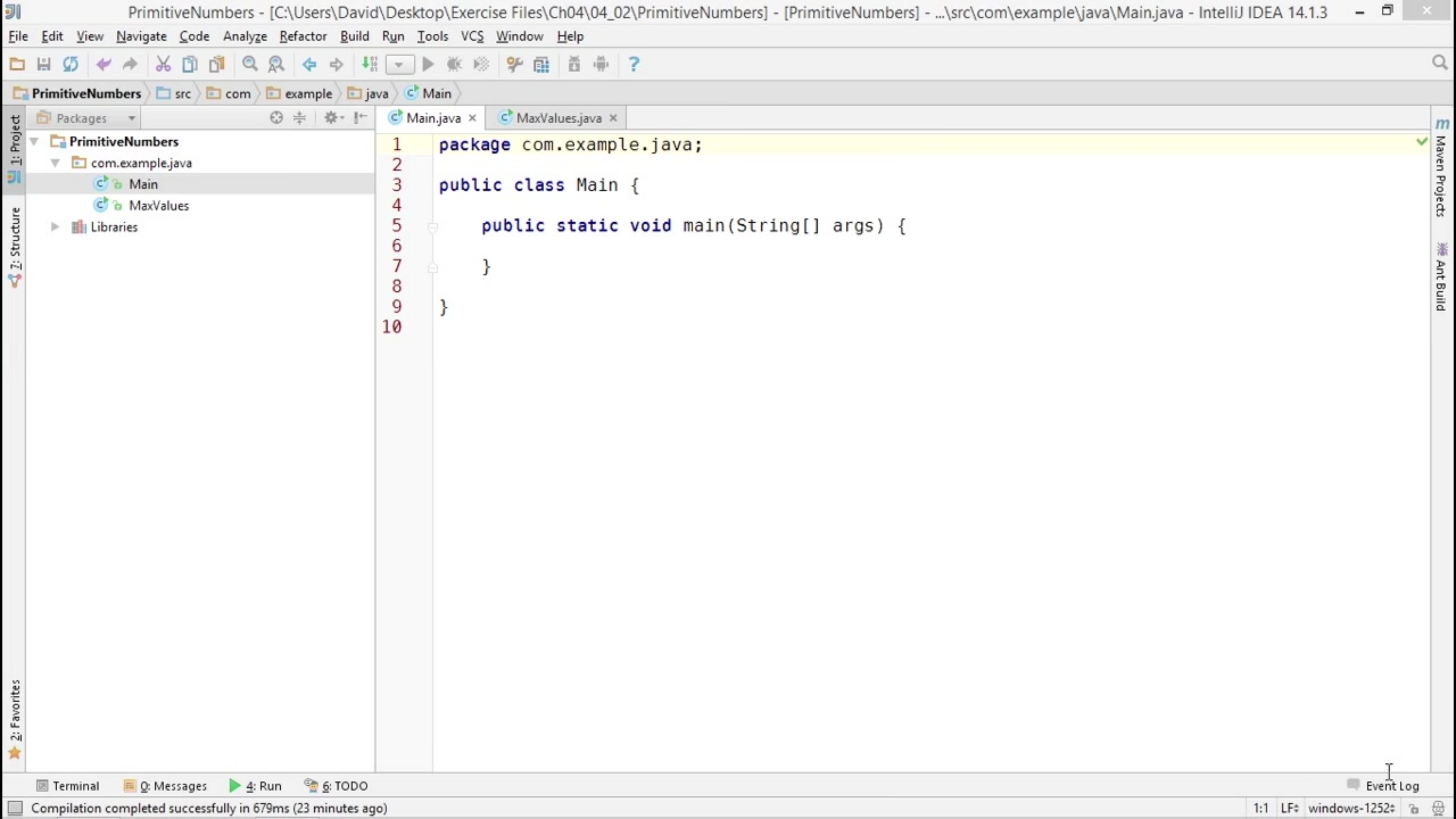
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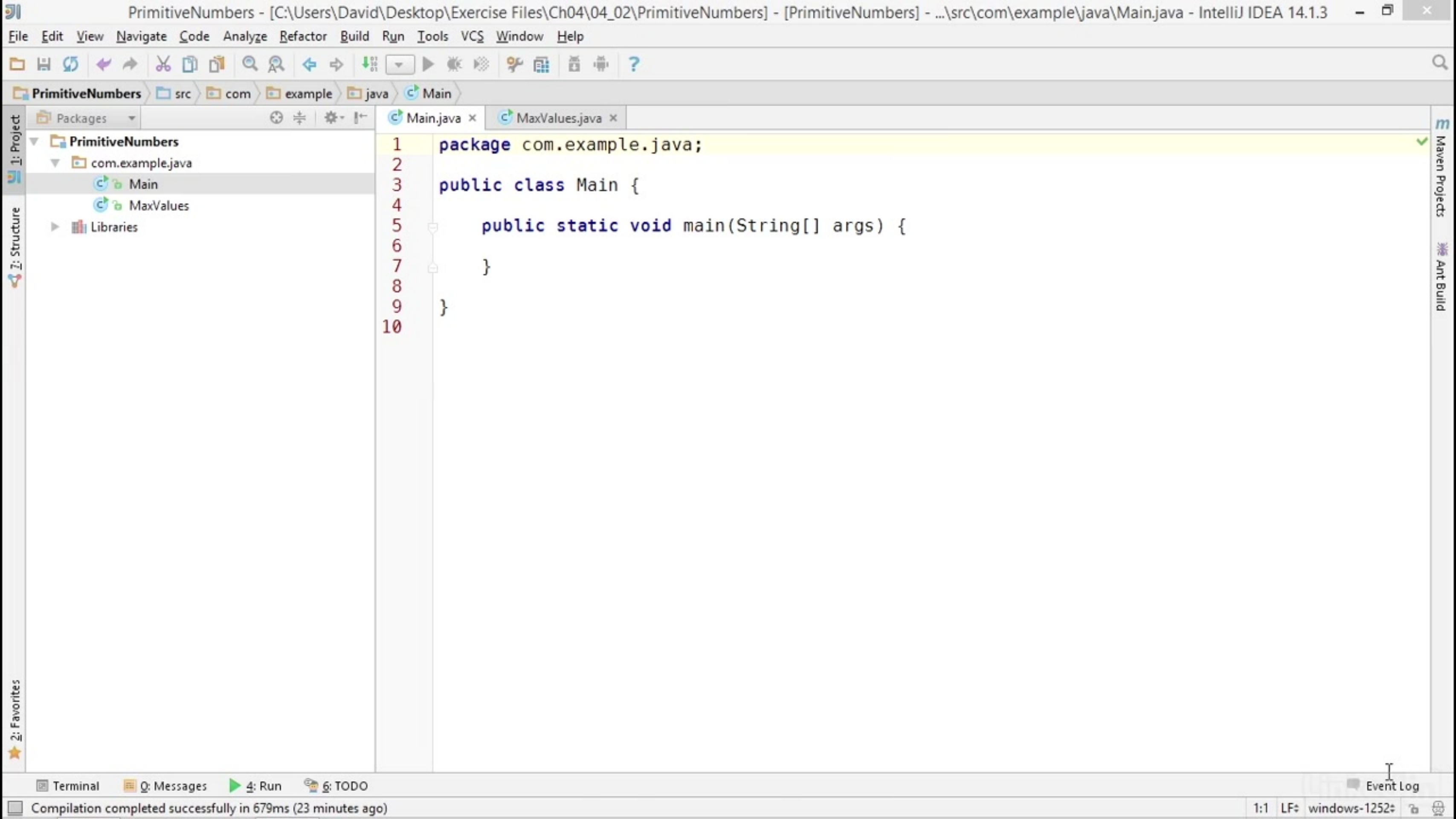
```
int myInt;
```

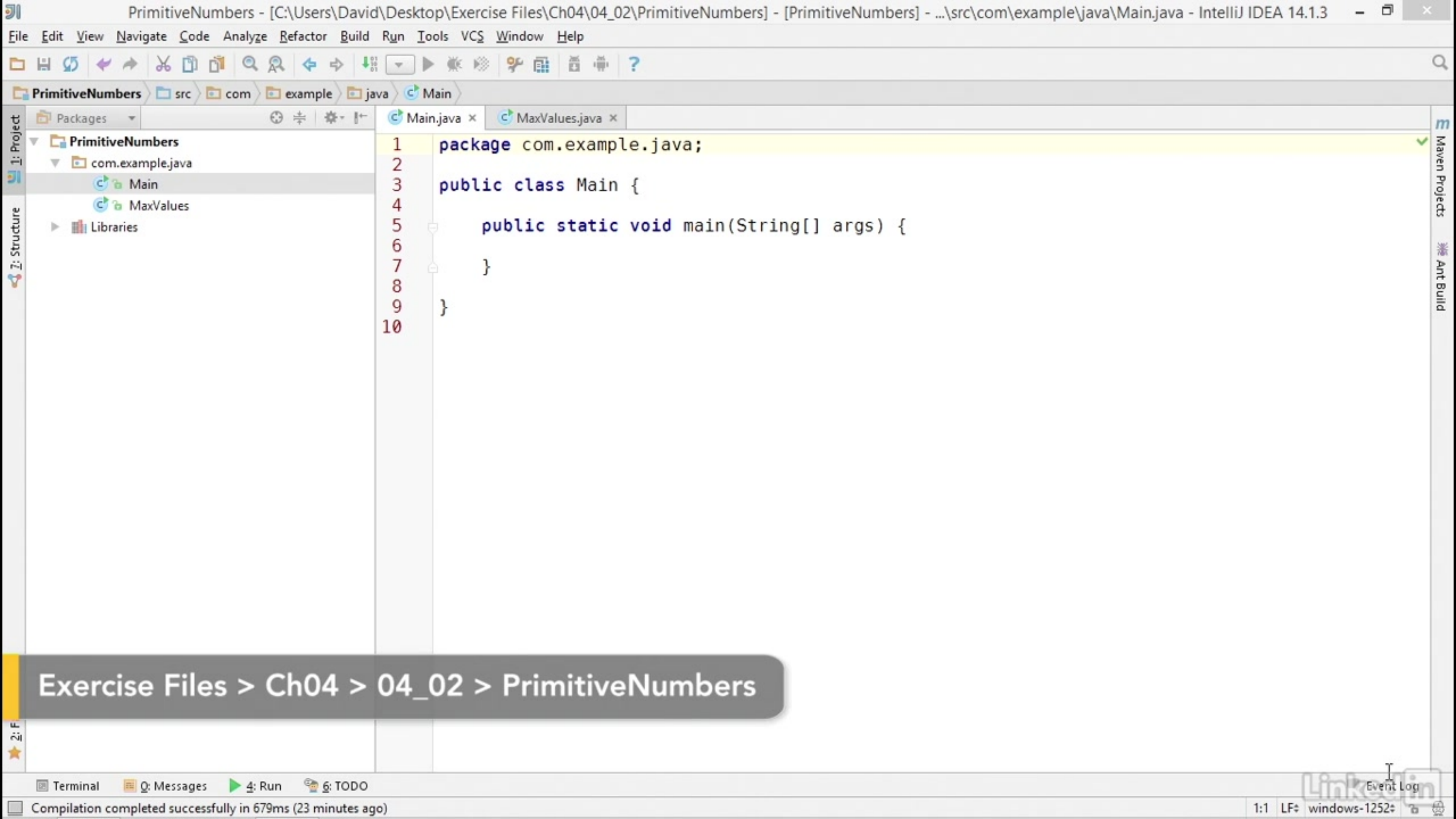
```
System.out.println("The value of myInt is " + myInt);
```

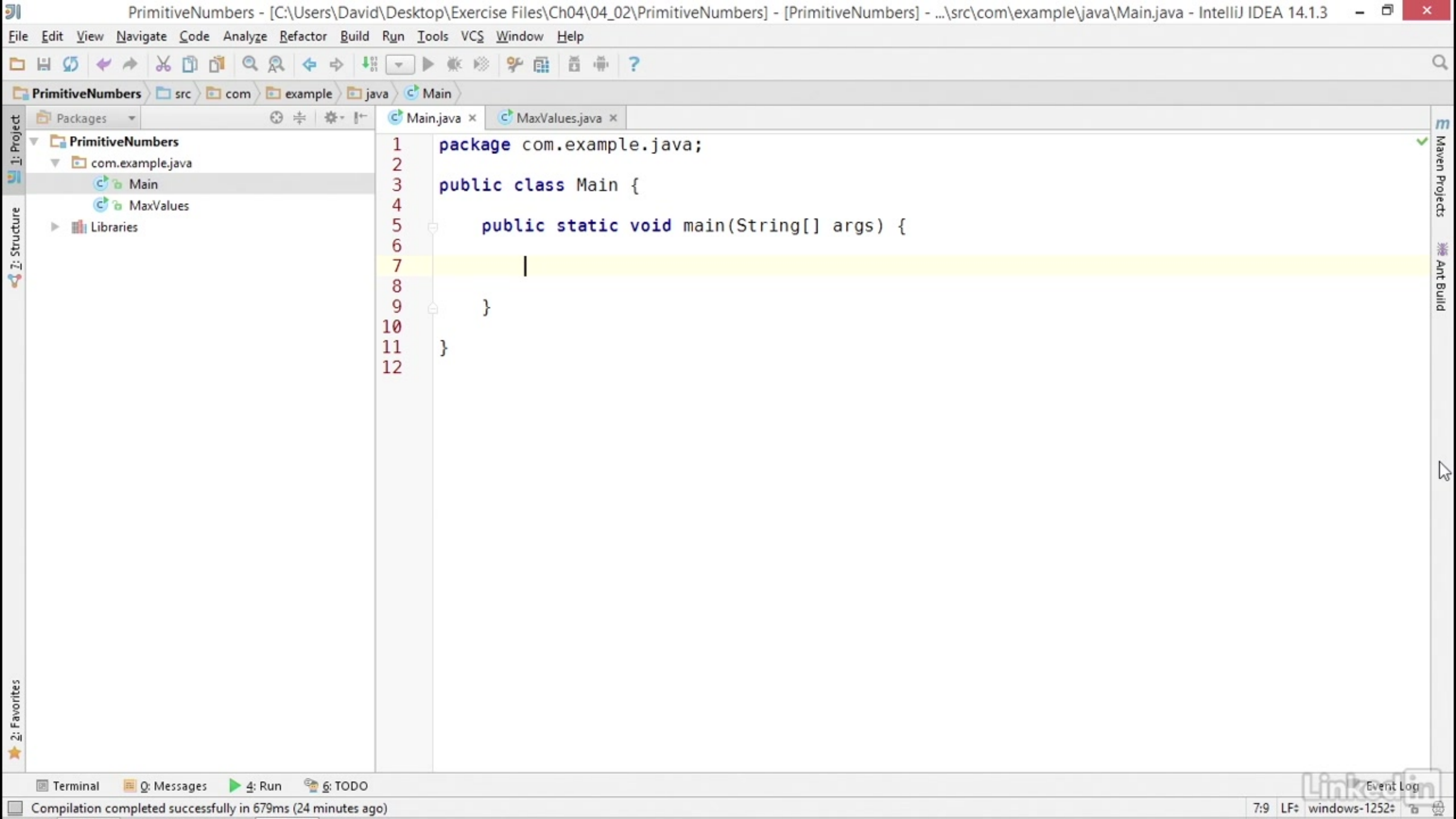
The value of myInt is 0



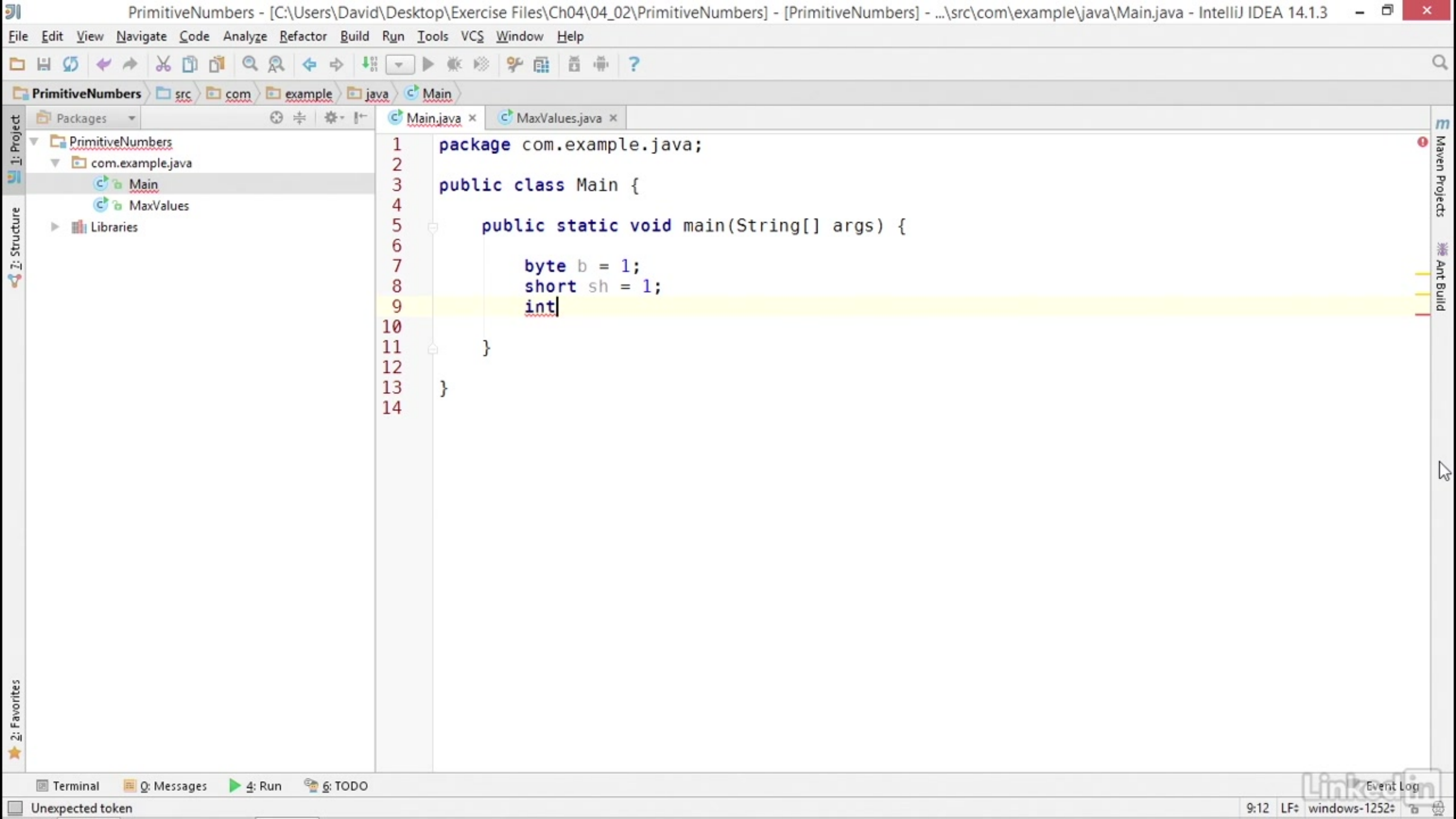




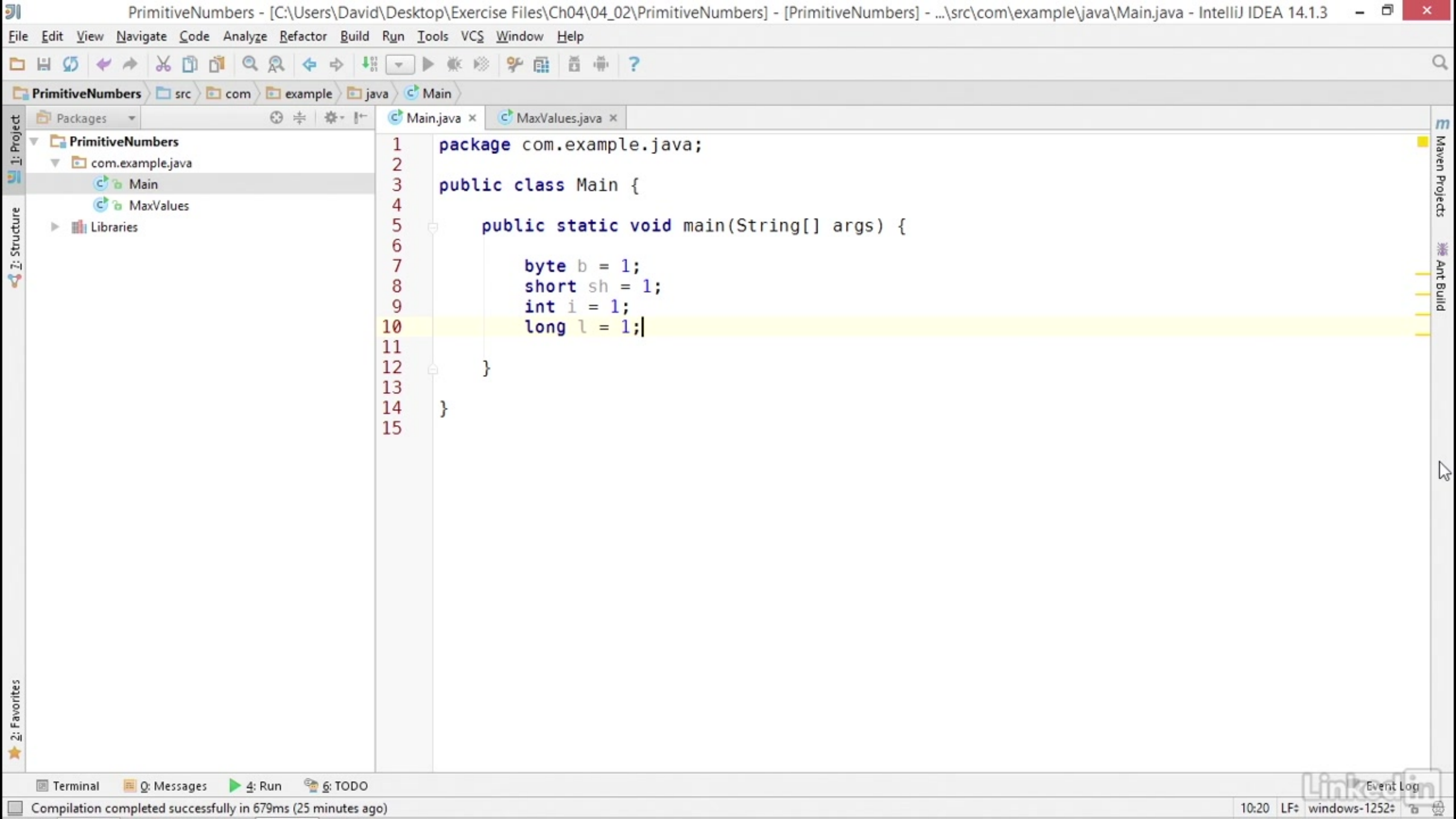


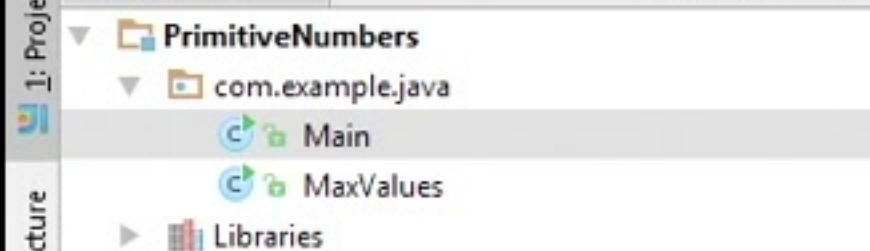




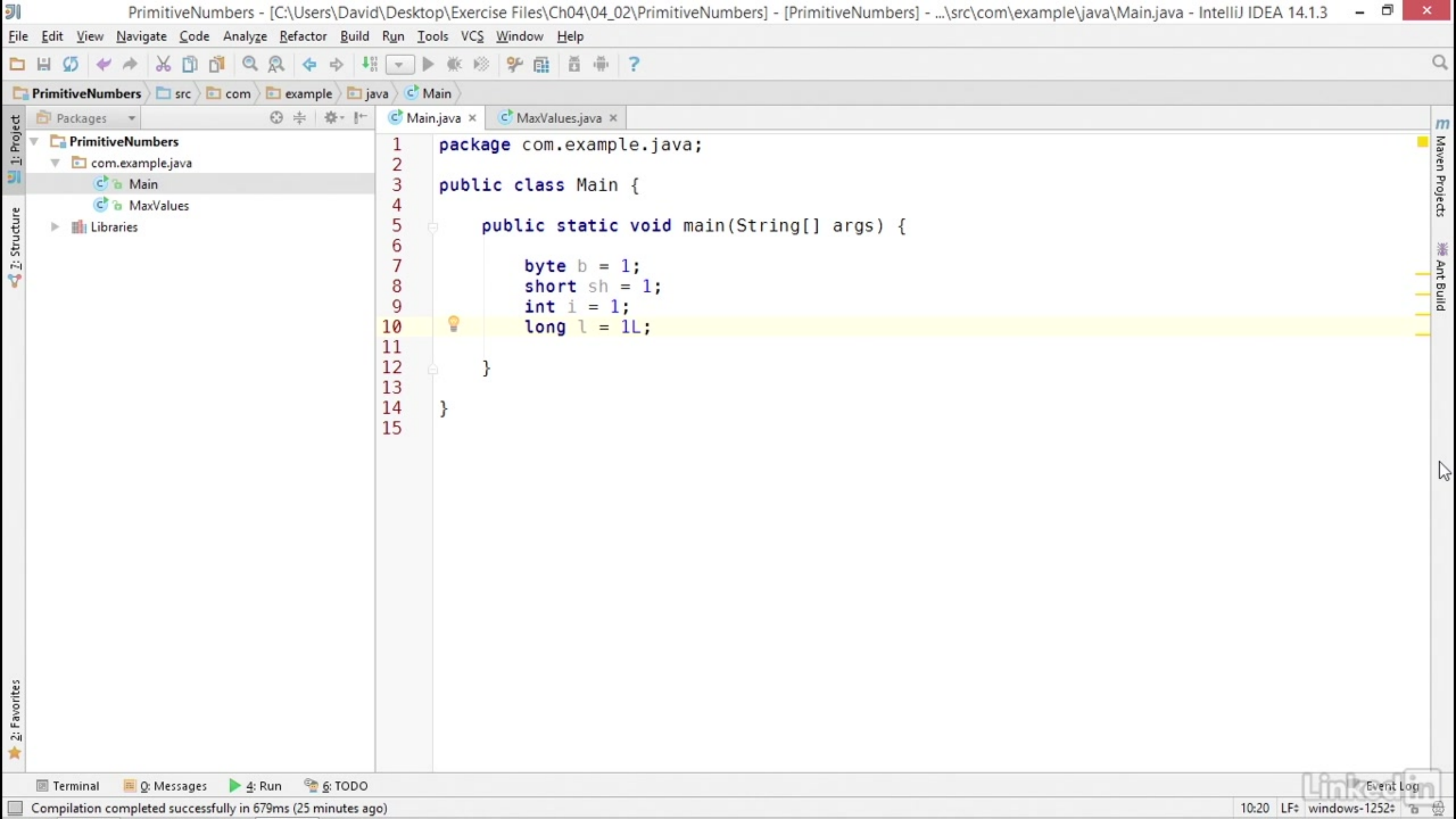




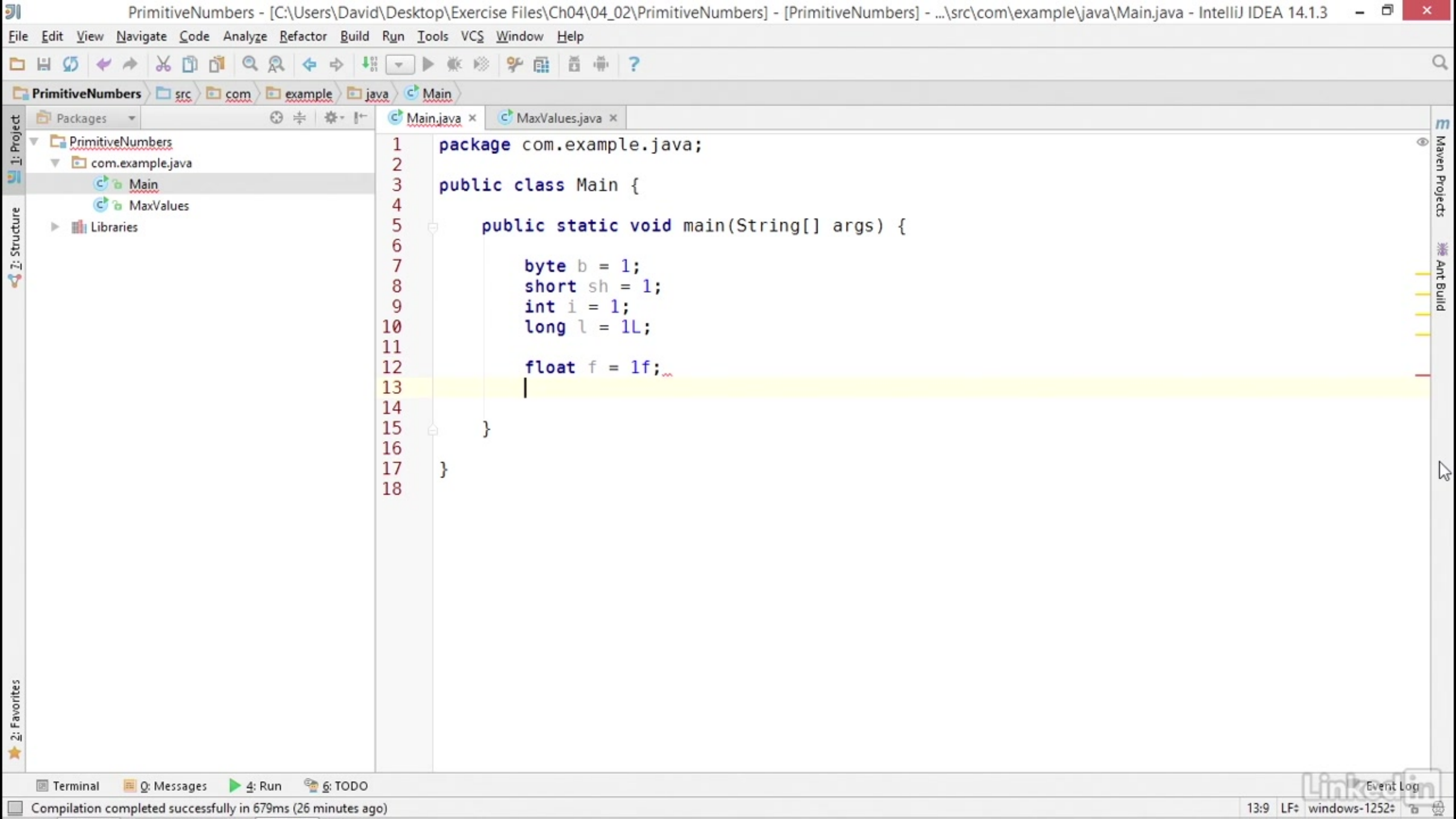


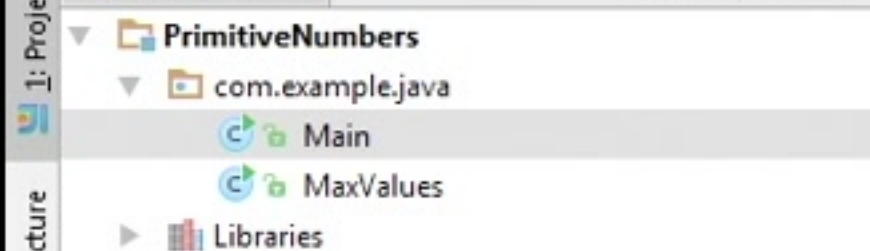


```
1 package com.example.java;
2
3 public class Main {
4
5     public static void main(String[] args) {
6
7         byte b = 1;
8         short sh = 1;
9         int i = 1;
10        long l = 1;
11
12    }
13
14 }
15
```









```
1 package com.example.java;
2
3 public class Main {
4
5     public static void main(String[] args) {
6
7         byte b = 1;
8         short sh = 1;
9         int i = 1;
10        long l = 1L;
11
12        float f = 1f;
13        double d = 1d;
14
15        |
16
17    }
18
19 }
20
```